

**TEST REPORT** PHM7572A**TEST DATE** 9/09/2024

BRAND Pierlite
ITEM Highlight
CODE TC HB N 330S/840 PSU WH401, 919002151945_1
SETTING 20K
SAMPLE New
CONDITION

CLIENT Mark Snyman
CLIENT EMAIL mark.snyman@signify.com
LABORATORY Signify Pacific Innovations
NAME Laboratory
LABORATORY 96 - 112 Gow Street
ADDRESS Padstow, NSW 2211

GENERAL The test results presented in this report relate only to the object tested.
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The Authenticity of this test report and its contents can be verified by contacting Signify Pacific Innovations Laboratory.

NATURE OF TEST Measurement of total luminous intensity distribution of a luminaire using a goniophotometer.

TEST The luminaire was tested in accordance with ANSI/IES LM-79-19 sections 1 to 11.

METHOD

TEST Section 9 - Chromaticity tested at nadir only.

DEVIATIONS

RESULTS**Photometric Measurements**

18158 lm
176 lm/W
3959 K
81.8

Colour Measurements

CCT
Ra

Input Electrical Measurements

240 V
473 mA
103 W
0.907 PF

Test Temperature**25.3 °C****Humidity****29 %****COMMENCED** 9/09/2024**TESTER**
SIGNATURE

Dean Ebejer

COMPLETED: 9/09/2024**AUTHORISED**
SIGNATURE

George Ebejer

Signify Innovations Laboratory Australia

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**Specifications
and
Clause No**

Clause Title
(inc. a brief précis of Requirements and Criteria.)

**Actual Results
Assessments
Remarks**

Electrical and Photometric Measurements of Solid-State Lighting Products

Photometric testing using Goniophotometer

4.0	Physical Environment and Test Conditions	
	4.2.1 Ambient temperature shall be $25 \pm 1.2^\circ\text{C}$. Measured $\leq 1.5\text{m}$ from DUT.	Applied
	4.2.2 Measurement of Light Engine Temperature	N/A
	4.3 Airflow requirements	Applied
	4.4 Thermal conditioning for mounting may not affect the heat flow away from the device.	Applied
	4.6 Stray Light requirements	Applied
	4.7 Humidity should be maintained between 10% and 65%	Applied
5.0	Power Supply Characteristics	
	5.1 Power Supply Requirements	Applied
	AC: $V_{\text{rated}} \pm 0.2\%$, THD $\leq 3\%$, $50 \pm 2\text{Hz}$. DC: $V_{\text{rated}} \pm 0.2\%$, AC ripple $\leq 0.5\%$	
	5.2 Test and Reference Circuit Requirements	Applied
	5.3 Electrical Measurement Instrument Calibration	Applied
	5.4 Electrical Settings	Applied
6.0	Test Preparation	
	6.3 The product shall be tested with no seasoning.	Applied
	6.4 Pre-burn and stabilisation. Variation shall be $\leq 0.5\%$ over 20 minutes	Applied
	6.5 DUT tested in the recommended operating position	Applied
7.0	Total Luminous Flux and Integrated Optical measurements	
	7.2 Integrating Sphere Systems	N/A
	7.3.2 Cosine angular responsivity $< 2\%$; $f1' \leq 3\%$; Spectroradiometer range 380nm to 780nm; Calibration - traceable to national standard.	Applied
	7.3.3 Angular scanning resolution - $\leq 22.5^\circ$ lateral and 2.5° longitudinal.	Applied
	7.3.4 Angular coverage must measure the light emitting area of the entire SSL product	Applied
8.0	Luminous Intensity or Optical Angular Distribution Measurement	
	8.1 Type of Goniophotometer - Type C	Applied
	8.2 Cosine angular responsivity $< 2\%$; $f1' \leq 3\%$; Spectroradiometer range at least 380nm to 780nm.	Applied
	8.3 Test distance shall be greater than 5 times the longest DUT dimension.	Applied
	8.4 Goniometer Alignment	Applied
9.0	Chromaticity Uniformity Measurements	Refer to Deviations
10.0	Measurement Uncertainty	Applied
11.0	Reporting Requirements	Applied

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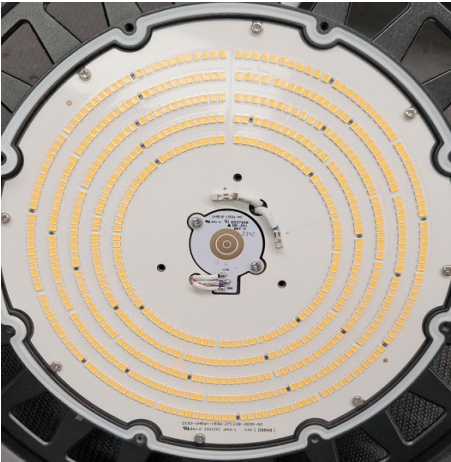
Photographs showing layouts



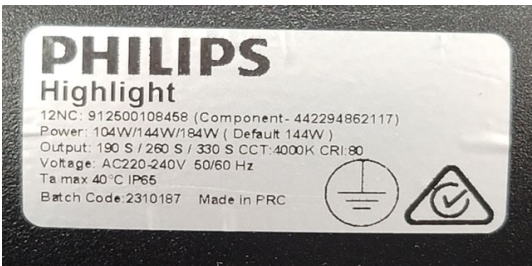
Front of luminaire (Without Shroud)



LED Driver



LED board



Set to 20K

Signify Innovations Laboratory Australia

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Specifications

Luminaire Description

Luminaire Name	Highlight
Luminaire Code	TC HB N 330S/840 PSU WH401, 919002151945_1
Setting	20K
Test mounting	Ceiling
Luminous surface type	Clear
Luminaire diameter	450 mm
Luminaire height	237 mm
Luminous opening diameter	440 mm
Luminous opening height	0 mm

Luminaire rated voltage

AC
240 V
50 Hz

Main LED / Lamp Driver(s)

Manufacturer	Lifud
Produce code	LF-FHB200YAIV 5
Description	LED Driver
Quantity	1
Setting	20 K
Output	Type DC
	Voltage range 180 - 260 V
	Current range 650 - 900 mA
	Input wattage (max) 200 W

LEDs

Chip manufacturer	Not specified
Chip code	Not specified
Chip Ts temperature	85 °C (From LM80 report)
Board code	D193-UHBah-183W-27C22B-2835-A0

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Uncertainties of measurements.

All Expanded Uncertainties are with a confidence interval of 95% of measurements including Degrees of Freedom (V_{eff}) using a coverage factor $k = 2$
 Estimated uncertainties in measurements for this test are:

Equipment Used

Everfine R5000 Goniometer

Luminous flux	+/- 3.8%
Luminous intensity	+/- 4.3%
Beam angle	+/- 2.0°
Luminous efficacy	+/- 4.0%
Chromaticity coordinates	+/- (0.004, 0.004) for (x,y) coordinates
Correlated colour temperature	+/- 40K at 2,700K increasing linearly to 150K at 6,500K
General colour rendering index, Ra	+/- 1.0
Special colour rendering index, R9	+/- 5.0

Stabilised AC Power Supply

Voltage	+/- 0.5%
Current	+/- 0.5%
Power	+/- 0.5%
Power factor	+/- 0.02
Frequency	+/- 0.1 Hz

Yokogawa WT310 Power meter

DC Voltage / Current	+/- (0.1% of reading + 0.2% of range)
AC Voltage / Current	+/- (0.1% of reading + 0.1% of range)
Power	+/- (0.1% of reading + 0.1% of range)
Power Factor	+/- 0.2%
Frequency	+/- (0.06% of reading)

Spectroradiometer HAAS-2000 (High accuracy Array Spectroradiometer)

CCT	+/- 4%
Ra	+/- 3.0%

Q1437 Temperature Meter - K type thermocouple

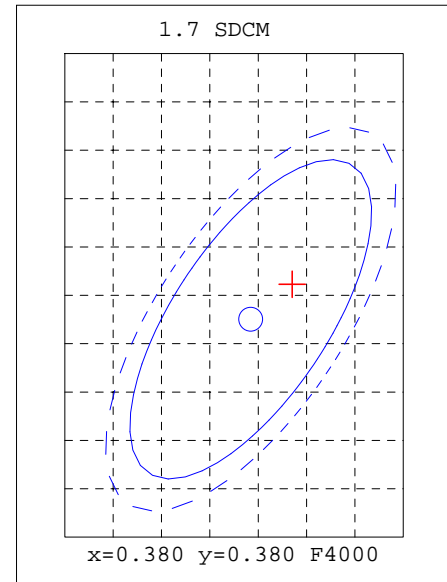
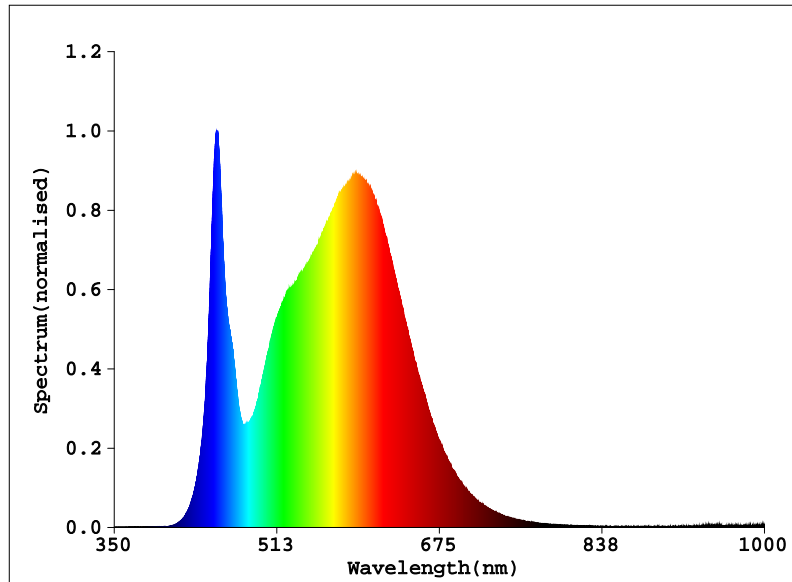
Temperature	+/- 2.78 degree Celsius
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Room Temperature stability

	+/- 1 degree Celsius
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Spectrum Test Report

NAME: Highlight, 919002151945_1		
DIM.: LA (m) -440mm x -440mm x 0mm		
MFR.: Signify		



Color Parameters:

Chromaticity Coordinates: $x=0.3837$ $y=0.3829$ $u'=0.2248$ $v'=0.5047$ $duv=0.00192$

Tc=3959K Dominant WL:Ld=578.3nm Purity=30.1%

Ratio:R=18.2% G=78.3% B=3.6% Peak WL:Lp=452.8nm HWL:20.9nm

Rendering Index:Ra=81.8

R1 =80	R2 =89	R3 =96	R4 =79	R5 =80	R6 =85	R7 =85	
R8 =61	R9 =1	R10=74	R11=78	R12=58	R13=82	R14=98	R15=73

Status: T=12.00ms Ip=58864 (90%) [HAAS-2000A(CAN)]

Tester:Dean Ebejer
Temperature:25.3Deg
Manufactory:Signify

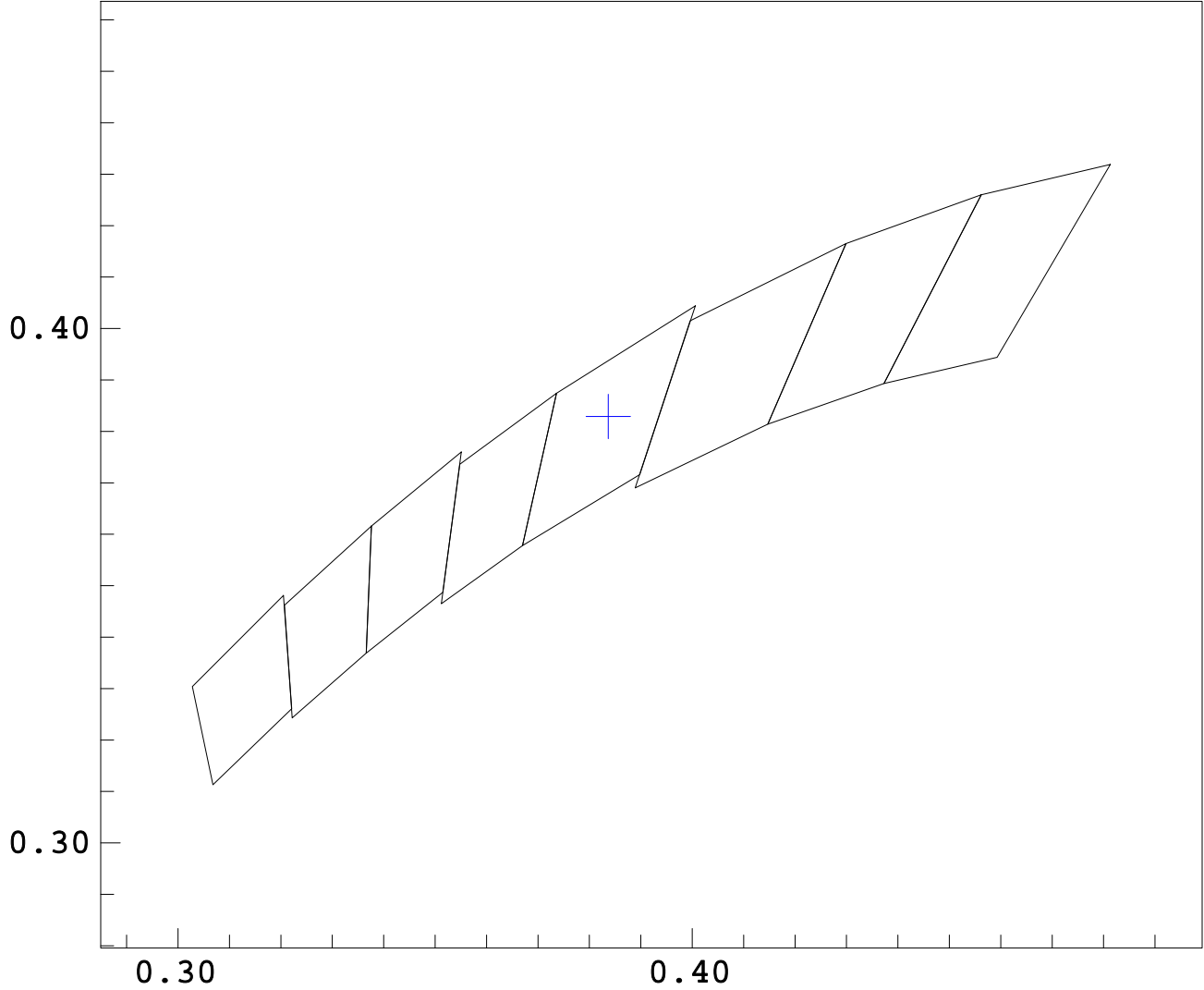
Date:5/09/2024
Humidity: 28.7%
Remarks:

System:HAAS-2000A(CAN)

Standard: ANSIC78-377_White.WCL

CIE x,y: x = 0.3837 , y = 0.3829

CLASS: ANSI_4000K



Tester: Dean Ebejer
Temperature: 25.3Deg
Manufactory: Signify

Date: 5/09/2024
Humidity: 28.7%
Remarks:

System: HAAS-2000A (CAN)



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] PHM7572A
[TESTLAB] Signify Pacific Innovations Laboratory
[TESTDATE] 2024-09-06
[ISSUEDATE] 2024-09-09
[MANUFAC] Signify
[LUMCAT] TC HB N 330S/840 PSU WH401, 919002151945_1
[LUMINAIRE] Highlight, 20K setting
[_LEDCHIP] Not specified
[_LEDBOARD] D193-UHBah-183W-27C22B-2835-A0
[_DRIVERCAT] LF-FHB200YAIV 5
[_DRIVER] Lifud, Qty 1, 20K Setting
[_BRAND] Signify
[_COLOURTEMP] 3959K 81.8Ra
[_LUMENS] 18158lm

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	176
Total Luminaire Watts	103.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 m (Diameter)
Luminous Width (90-270)	0.44 m (Diameter)
Luminous Height	0.00 m



IES INDOOR REPORT**PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	38277	36477	36472
55	20603	19823	19806
65	11200	10437	9848
75	1537	1553	1485
85	2626	2440	2215

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100
1	9310.200	9321.300	9320.100	9309.100	9317.500	9316.200	9306.100	9326.600	9317.900	9331.300
2	9306.900	9322.500	9305.500	9294.900	9331.300	9317.700	9311.000	9326.700	9326.800	9306.700
3	9307.200	9325.600	9295.300	9289.000	9310.400	9304.500	9290.300	9333.900	9345.500	9306.000
4	9297.600	9312.400	9286.800	9285.900	9295.800	9291.600	9293.300	9310.400	9324.400	9301.400
5	9296.800	9294.900	9272.600	9287.400	9297.200	9293.000	9288.500	9309.000	9304.800	9268.500
6	9294.900	9280.800	9255.500	9256.100	9286.900	9282.000	9265.900	9293.700	9292.600	9261.200
7	9279.100	9274.400	9272.700	9235.000	9269.300	9260.300	9261.800	9281.500	9273.800	9259.500
8	9257.400	9266.600	9253.500	9236.100	9250.700	9244.700	9232.400	9253.100	9249.700	9240.900
9	9256.200	9250.900	9235.000	9233.000	9258.500	9240.800	9217.300	9254.000	9245.600	9220.900
10	9237.000	9231.900	9230.300	9219.900	9241.700	9233.200	9223.700	9235.400	9225.200	9204.800
11	9211.200	9215.400	9219.500	9193.200	9216.200	9202.700	9207.900	9202.500	9214.800	9179.400
12	9201.500	9193.100	9204.600	9180.600	9191.400	9183.300	9182.900	9209.800	9195.200	9176.600
13	9179.200	9174.600	9196.400	9164.700	9162.500	9162.200	9158.600	9184.600	9181.900	9147.800
14	9160.600	9151.500	9152.600	9136.800	9150.700	9170.300	9128.700	9163.900	9164.100	9129.400
15	9147.500	9132.800	9144.600	9121.200	9136.200	9150.300	9108.200	9132.600	9139.900	9122.100
16	9133.000	9119.800	9140.100	9119.500	9109.500	9098.300	9089.800	9108.200	9136.000	9085.700
17	9108.500	9100.600	9112.400	9092.200	9080.700	9063.900	9075.100	9077.800	9097.700	9049.600
18	9097.200	9076.500	9072.300	9058.800	9049.500	9041.700	9031.500	9055.700	9065.400	9035.700
19	9071.100	9045.000	9054.200	9042.000	9030.500	9016.100	9004.000	9016.300	9023.300	9008.300
20	9052.500	9006.300	9027.000	8994.700	8986.800	8953.600	8975.000	8972.800	8991.800	8966.900
21	9018.400	8985.000	8994.700	8968.500	8952.700	8936.500	8936.500	8930.400	8972.800	8926.800
22	8983.200	8955.800	8957.000	8913.200	8921.800	8904.800	8891.900	8899.800	8914.100	8877.300
23	8926.800	8915.100	8895.700	8868.000	8890.700	8867.900	8844.200	8872.900	8875.100	8832.100
24	8875.300	8865.100	8861.300	8814.300	8827.100	8799.800	8773.800	8808.000	8806.900	8765.600
25	8850.800	8823.000	8797.300	8751.700	8754.800	8743.900	8724.400	8757.500	8742.100	8703.600
26	8802.400	8767.600	8747.000	8694.100	8683.700	8695.000	8667.600	8672.500	8689.800	8641.700
27	8734.900	8701.200	8667.400	8661.900	8628.800	8625.900	8600.500	8603.700	8610.400	8584.400
28	8663.300	8611.100	8609.800	8587.900	8567.100	8557.600	8536.400	8523.300	8542.200	8503.400
29	8599.400	8537.700	8534.600	8497.900	8475.400	8454.100	8455.700	8439.000	8455.600	8420.600
30	8502.600	8458.700	8447.200	8399.400	8405.300	8371.600	8350.100	8352.000	8363.200	8332.600
31	8423.100	8361.500	8351.600	8294.600	8265.400	8247.500	8246.200	8249.400	8263.200	8237.500
32	8306.000	8250.100	8239.800	8178.800	8162.700	8151.300	8122.400	8119.600	8151.300	8113.800
33	8182.400	8114.500	8118.800	8047.400	8039.000	7987.900	7974.200	7980.000	8005.900	7975.000
34	8051.300	7971.300	7961.100	7889.200	7862.300	7830.500	7817.600	7797.600	7820.800	7800.400
35	7888.400	7792.800	7763.100	7681.800	7675.100	7612.400	7607.900	7577.700	7607.700	7580.300
36	7691.300	7588.300	7560.100	7447.400	7437.200	7342.500	7339.700	7291.800	7340.900	7325.500
37	7440.000	7313.800	7276.200	7125.400	7111.100	7010.500	7034.700	6950.700	6977.300	6974.400
38	7092.600	6945.600	6903.100	6719.300	6687.700	6607.000	6629.000	6545.500	6575.600	6586.500
39	6660.500	6500.000	6435.600	6290.000	6257.400	6174.500	6191.200	6115.700	6185.300	6180.200
40	6202.500	6032.400	5977.300	5848.400	5839.500	5734.100	5752.200	5699.000	5778.600	5764.600
41	5743.100	5557.100	5543.600	5444.500	5433.700	5323.500	5337.500	5308.400	5387.500	5366.700
42	5294.400	5125.600	5118.900	5039.000	5053.900	4925.100	4955.000	4926.400	4995.100	4998.600
43	4881.300	4730.700	4730.600	4657.000	4670.500	4571.500	4588.000	4563.300	4630.800	4628.200
44	4482.200	4362.800	4358.000	4288.600	4306.000	4221.300	4249.000	4214.700	4270.600	4274.800
45	4117.200	4019.800	4034.500	3942.100	3955.600	3891.500	3900.200	3886.100	3926.200	3923.000
46	3786.500	3709.900	3713.200	3626.500	3643.600	3586.500	3603.400	3575.900	3625.500	3607.200
47	3477.200	3414.800	3425.800	3338.300	3356.400	3298.700	3328.100	3295.500	3331.400	3302.600
48	3198.600	3156.000	3169.200	3074.800	3091.100	3044.100	3079.500	3036.200	3068.400	3061.400
49	2937.200	2908.200	2923.900	2828.700	2837.800	2808.800	2841.800	2793.600	2814.700	2810.300
50	2690.300	2691.700	2701.900	2608.700	2602.900	2580.400	2626.500	2572.700	2583.200	2593.200
51	2477.000	2482.100	2498.300	2399.400	2395.400	2389.900	2419.200	2377.500	2382.900	2397.800
52	2298.800	2295.600	2316.600	2218.500	2224.100	2201.700	2239.300	2195.300	2209.500	2224.000
53	2120.500	2116.200	2134.900	2054.900	2052.800	2037.100	2059.400	2028.600	2036.100	2050.200

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

CANDELA TABULATION - (Cont.)

54	1943.000	1949.900	1953.500	1890.100	1882.000	1878.400	1880.600	1870.900	1863.000	1876.800
55	1797.600	1797.300	1806.500	1749.100	1734.200	1724.900	1741.300	1722.000	1721.500	1728.100
56	1661.200	1652.700	1662.800	1610.500	1600.000	1597.000	1605.200	1582.500	1587.900	1593.100
57	1528.800	1525.900	1532.800	1487.100	1477.800	1456.900	1475.900	1452.700	1450.500	1462.400
58	1404.000	1393.600	1402.200	1365.700	1355.700	1331.200	1348.700	1332.200	1336.000	1339.700
59	1293.600	1274.100	1280.400	1256.400	1244.900	1222.000	1233.100	1222.100	1227.400	1225.800
60	1178.200	1169.200	1171.900	1152.400	1140.600	1124.700	1126.300	1113.300	1119.900	1122.100
61	1077.100	1068.600	1064.600	1053.300	1041.600	1023.800	1027.900	1016.900	1019.900	1020.200
62	984.920	968.090	966.940	954.360	943.840	922.740	931.750	920.630	925.290	930.270
63	890.860	880.630	878.200	866.250	859.540	835.030	841.950	836.000	839.530	841.920
64	804.360	793.470	794.620	782.240	776.370	756.050	758.610	746.030	752.090	751.090
65	720.040	706.440	708.760	692.120	685.010	656.930	659.790	642.710	639.710	633.110
66	606.830	585.450	587.730	566.400	557.640	519.940	516.300	488.470	478.890	474.850
67	444.380	414.430	414.540	375.970	370.910	337.800	334.210	306.790	291.490	293.100
68	260.780	241.750	242.360	215.090	210.890	187.210	187.120	168.670	164.640	164.510
69	146.270	139.620	136.500	133.290	132.390	128.050	128.000	125.780	125.120	123.140
70	115.670	113.040	112.630	109.700	109.540	106.600	106.760	104.100	104.020	103.630
71	97.263	95.000	94.588	91.590	91.246	88.361	87.573	84.201	84.159	83.477
72	79.750	77.609	77.383	74.422	74.473	72.094	71.065	68.938	68.517	67.701
73	66.369	65.834	65.842	64.951	64.808	64.181	63.436	62.865	62.308	61.270
74	61.982	62.465	62.340	62.352	62.173	62.309	61.334	61.046	60.382	59.386
75	60.532	61.240	60.959	61.245	60.941	61.364	60.200	60.262	59.424	58.454
76	59.770	60.510	60.253	60.456	60.230	60.422	59.456	59.409	58.656	57.709
77	58.808	59.565	59.359	59.462	59.233	59.286	58.316	58.321	57.500	56.577
78	57.647	58.348	58.065	58.149	57.954	57.881	56.894	56.768	56.024	55.147
79	56.110	56.690	56.414	56.316	56.131	55.842	54.946	54.702	54.087	53.188
80	53.954	54.366	54.148	53.832	53.675	53.331	52.417	52.204	51.428	50.688
81	51.395	51.595	51.352	50.962	50.760	50.336	49.468	49.112	48.412	47.661
82	48.208	48.290	47.972	47.569	47.422	46.856	45.868	45.438	44.802	44.107
83	44.491	44.249	43.957	43.448	43.157	42.375	41.573	41.001	40.384	39.823
84	40.074	39.674	39.210	38.559	38.387	37.322	36.605	35.965	35.374	34.909
85	34.820	34.319	33.934	33.115	32.916	31.787	30.982	30.298	29.832	29.370
86	29.228	28.622	28.146	27.305	26.912	25.693	25.123	24.267	23.717	23.533
87	22.962	22.291	21.738	20.923	20.273	19.139	18.555	17.817	17.161	17.112
88	16.465	15.778	15.047	14.274	13.492	12.493	11.733	11.079	10.452	10.448
89	9.567	9.052	8.253	7.748	6.924	6.646	5.947	5.725	4.985	4.941
90	4.293	3.407	2.217	1.064	0.532	0.569	0.532	0.533	0.533	0.461

Vert. Angles

Horizontal Angles

	100	110	120	130	140	150	160	170	180	190
0	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100
1	9323.500	9336.600	9320.100	9317.100	9304.700	9331.600	9311.000	9317.100	9307.600	9309.200
2	9311.500	9328.200	9309.200	9322.800	9313.600	9335.500	9306.700	9323.500	9308.800	9315.200
3	9295.600	9315.500	9267.100	9318.200	9292.000	9338.000	9309.700	9308.300	9308.800	9316.400
4	9290.600	9296.600	9283.100	9318.700	9301.300	9300.300	9300.900	9313.800	9301.700	9317.100
5	9263.700	9282.300	9276.300	9307.800	9282.900	9292.800	9289.600	9299.400	9302.900	9302.100
6	9268.000	9272.300	9263.900	9282.300	9266.300	9262.800	9293.900	9282.300	9289.400	9299.800
7	9258.700	9271.000	9262.000	9273.000	9270.300	9258.600	9277.900	9267.000	9268.200	9296.900
8	9242.900	9258.300	9246.700	9258.100	9268.100	9248.500	9255.400	9289.700	9252.700	9279.100
9	9233.800	9242.400	9222.700	9245.000	9230.200	9237.300	9235.800	9271.700	9250.500	9268.500
10	9213.700	9227.100	9216.400	9229.700	9217.000	9221.700	9223.800	9250.800	9245.800	9268.900
11	9200.600	9203.100	9210.300	9222.800	9188.200	9209.100	9202.000	9247.400	9221.000	9255.600
12	9180.900	9177.200	9171.500	9211.700	9170.500	9196.900	9185.500	9218.400	9211.000	9242.100
13	9148.000	9170.200	9157.500	9182.800	9174.300	9183.000	9175.500	9204.900	9206.200	9234.800
14	9130.000	9149.300	9144.000	9150.900	9156.700	9163.400	9168.100	9181.000	9190.500	9216.300

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CANDELA TABULATION - (Cont.)

15	9113.400	9123.400	9111.900	9135.800	9141.100	9152.000	9152.700	9189.800	9183.300	9198.900
16	9089.800	9090.600	9096.100	9124.200	9120.700	9133.100	9121.300	9176.700	9168.200	9168.200
17	9070.600	9084.400	9103.500	9105.600	9111.600	9140.700	9110.000	9165.600	9158.000	9150.600
18	9035.500	9067.400	9069.300	9070.500	9082.600	9101.100	9086.700	9124.500	9136.200	9130.900
19	8998.200	9038.900	9030.900	9042.900	9051.600	9063.100	9064.800	9129.600	9103.600	9110.700
20	8970.900	8997.000	9012.400	9009.800	9029.400	9048.400	9044.800	9081.500	9075.600	9084.700
21	8933.100	8959.900	8973.300	8972.800	9012.900	9010.400	9013.600	9065.200	9049.500	9058.100
22	8895.000	8924.100	8922.100	8932.000	8961.700	8986.900	8983.900	9018.000	9025.900	9041.100
23	8846.100	8873.700	8876.100	8904.400	8922.800	8953.000	8951.200	8984.500	8992.600	9016.100
24	8781.900	8825.700	8832.900	8864.800	8882.700	8903.100	8923.900	8970.900	8958.700	8977.900
25	8724.600	8768.400	8775.700	8822.700	8826.600	8854.700	8861.700	8911.700	8908.800	8935.800
26	8664.800	8702.000	8726.300	8746.700	8760.100	8805.200	8797.600	8856.400	8866.700	8885.200
27	8602.600	8644.900	8653.100	8680.700	8719.000	8748.600	8736.800	8803.400	8816.300	8833.300
28	8521.400	8578.700	8569.400	8606.200	8624.000	8667.200	8683.100	8744.300	8756.700	8777.100
29	8441.500	8484.800	8505.200	8532.500	8528.600	8595.900	8624.200	8675.200	8689.500	8714.000
30	8341.400	8385.000	8401.700	8439.700	8458.800	8534.300	8544.600	8613.900	8621.500	8643.800
31	8246.800	8287.100	8298.700	8346.000	8372.600	8444.400	8438.800	8529.300	8540.700	8563.100
32	8122.000	8177.200	8167.900	8240.200	8272.400	8341.600	8352.800	8443.000	8445.500	8474.900
33	7977.500	8037.000	8051.800	8115.500	8154.500	8227.300	8229.300	8325.100	8332.000	8358.600
34	7810.900	7879.400	7889.000	7981.100	8030.500	8092.600	8121.200	8196.900	8222.900	8242.200
35	7608.300	7684.000	7694.600	7811.600	7859.000	7938.300	7975.200	8048.400	8076.600	8105.900
36	7344.200	7452.700	7504.700	7606.400	7646.900	7743.300	7797.800	7861.500	7892.700	7937.700
37	7016.500	7155.000	7203.300	7323.900	7383.400	7522.600	7550.500	7653.900	7658.600	7732.900
38	6625.500	6775.100	6830.200	6980.600	7053.100	7215.800	7242.800	7374.100	7382.300	7469.000
39	6193.300	6352.900	6379.300	6535.700	6597.300	6810.100	6829.800	6996.200	7016.200	7142.400
40	5764.100	5883.300	5912.700	6053.600	6094.800	6294.200	6336.900	6510.800	6538.800	6687.300
41	5340.500	5431.200	5464.700	5610.800	5613.400	5785.200	5835.100	6008.100	6017.200	6179.400
42	4952.400	5012.600	5032.600	5179.100	5171.100	5308.000	5348.400	5539.000	5537.500	5685.300
43	4577.000	4627.100	4638.600	4760.700	4752.700	4877.700	4903.100	5079.800	5091.000	5208.200
44	4221.300	4269.900	4258.500	4359.800	4334.000	4467.400	4487.400	4674.100	4682.800	4788.500
45	3876.200	3923.800	3899.800	3976.600	3964.000	4061.500	4099.000	4265.400	4291.600	4390.900
46	3568.100	3607.500	3575.700	3623.800	3623.400	3717.000	3758.300	3903.000	3930.100	4027.900
47	3280.100	3333.700	3290.000	3321.000	3318.400	3416.100	3448.800	3548.300	3608.000	3701.600
48	3037.000	3075.200	3033.700	3045.500	3044.600	3148.800	3169.600	3280.500	3308.800	3430.600
49	2805.000	2836.100	2790.500	2798.700	2801.700	2899.900	2912.700	2997.300	3045.700	3184.000
50	2594.900	2624.000	2570.600	2584.500	2573.600	2676.300	2686.700	2753.000	2798.100	2939.000
51	2392.200	2411.800	2364.100	2382.400	2353.200	2478.700	2475.800	2526.800	2576.200	2714.200
52	2214.300	2240.100	2192.800	2209.600	2178.900	2301.000	2283.900	2345.000	2364.600	2507.500
53	2043.600	2068.500	2019.100	2036.800	2014.100	2123.200	2095.400	2163.100	2185.200	2326.600
54	1887.500	1897.100	1858.500	1865.200	1868.000	1945.600	1931.300	1981.300	2015.700	2145.600
55	1739.300	1753.900	1716.700	1726.000	1740.500	1790.500	1777.100	1823.300	1865.500	1964.700
56	1600.300	1615.100	1574.700	1593.400	1601.500	1639.900	1631.400	1687.600	1720.400	1809.800
57	1472.600	1483.300	1438.300	1460.800	1481.800	1501.100	1494.900	1550.200	1583.100	1660.100
58	1346.900	1360.400	1323.200	1340.400	1358.900	1366.000	1369.000	1429.100	1455.000	1520.000
59	1227.200	1244.800	1212.700	1232.200	1245.300	1248.000	1252.900	1297.600	1330.500	1394.000
60	1122.500	1134.900	1111.700	1124.000	1140.700	1143.300	1139.200	1191.300	1218.500	1269.200
61	1025.300	1032.500	1010.700	1023.700	1036.300	1038.800	1036.500	1085.800	1115.000	1157.300
62	928.290	934.700	909.770	930.330	931.980	942.050	933.830	983.340	1013.500	1051.000
63	839.530	844.560	824.330	838.650	846.200	849.800	841.370	888.230	911.910	950.470
64	742.950	747.710	726.460	744.120	748.070	750.850	751.100	795.290	821.640	851.460
65	620.320	622.970	603.000	615.540	621.160	625.130	624.280	676.610	702.030	737.460
66	450.050	450.870	425.020	441.790	440.820	458.230	448.770	507.460	526.080	574.670
67	272.680	274.280	253.550	264.130	257.030	287.980	270.710	307.030	326.460	371.950
68	153.920	154.240	148.660	149.990	146.180	156.820	154.300	160.780	170.110	202.800
69	119.270	118.920	116.480	116.800	114.820	116.360	116.120	119.040	118.780	121.810
70	100.140	100.510	97.695	98.562	96.191	98.387	97.438	99.895	99.903	102.710

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CANDELA TABULATION - (Cont.)

71	80.422	81.009	78.479	79.385	77.346	79.250	78.813	81.299	81.864	85.577
72	65.932	65.903	64.150	64.360	63.162	63.747	63.320	65.047	64.983	67.936
73	60.578	59.752	58.913	57.962	56.978	56.407	55.803	55.843	55.479	56.226
74	58.898	57.976	57.231	56.195	55.448	54.634	54.012	53.470	53.110	52.685
75	58.051	57.090	56.482	55.311	54.687	53.614	53.145	52.381	52.065	51.348
76	57.204	56.319	55.654	54.506	53.879	52.878	52.402	51.674	51.344	50.666
77	56.076	55.264	54.518	53.493	52.812	51.969	51.516	50.700	50.461	49.851
78	54.517	53.761	53.091	52.091	51.357	50.671	50.168	49.506	49.253	48.743
79	52.484	51.894	51.120	50.191	49.575	48.952	48.431	47.893	47.710	47.272
80	50.009	49.439	48.575	47.846	47.154	46.710	46.214	45.792	45.582	45.384
81	46.935	46.547	45.580	45.106	44.428	43.997	43.427	43.262	43.032	43.039
82	43.287	43.023	42.082	41.645	40.883	40.744	40.234	40.352	39.995	40.205
83	39.047	38.900	37.876	37.668	36.945	36.987	36.543	36.606	36.572	36.825
84	34.229	34.012	33.057	32.945	32.346	32.474	32.083	32.383	32.307	32.749
85	28.648	28.595	27.690	27.603	27.081	27.375	27.153	27.506	27.553	28.206
86	22.841	22.685	21.998	22.012	21.585	21.922	21.823	22.280	22.458	23.078
87	16.528	16.364	15.795	15.769	15.588	15.924	16.003	16.469	16.858	17.484
88	10.002	9.712	9.467	9.422	9.460	9.784	10.022	10.466	10.932	11.592
89	4.817	4.521	4.432	4.423	4.689	4.780	5.219	5.174	5.728	5.913
90	0.461	0.461	0.496	0.461	0.496	0.497	0.496	0.497	0.532	0.497

Vert. Angles

Horizontal Angles

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100
1	9315.800	9313.600	9320.500	9338.700	9320.700	9317.300	9336.700	9331.200	9312.600	9303.100
2	9321.800	9307.300	9308.600	9340.500	9318.400	9336.800	9315.600	9319.400	9322.500	9321.400
3	9337.000	9290.100	9311.600	9320.000	9313.100	9338.500	9312.500	9345.200	9322.900	9321.000
4	9324.300	9292.700	9315.000	9318.600	9314.900	9346.900	9317.400	9332.300	9320.900	9309.500
5	9306.100	9318.500	9311.000	9323.100	9305.700	9343.300	9319.000	9329.200	9332.700	9326.500
6	9300.700	9308.700	9297.400	9321.200	9315.500	9316.300	9328.200	9305.600	9319.600	9324.500
7	9307.200	9299.100	9308.000	9312.200	9294.800	9325.200	9315.600	9289.800	9310.900	9316.700
8	9283.700	9277.800	9287.800	9289.900	9283.600	9312.000	9302.100	9289.400	9301.500	9293.800
9	9264.500	9281.100	9282.400	9292.300	9274.900	9308.100	9294.100	9289.000	9289.600	9275.100
10	9250.800	9261.700	9268.500	9296.000	9255.500	9304.400	9283.000	9284.400	9279.900	9266.200
11	9240.100	9241.400	9273.600	9264.500	9252.800	9281.600	9286.400	9274.200	9253.400	9268.400
12	9235.500	9235.700	9254.300	9268.400	9238.500	9258.600	9263.500	9267.200	9252.400	9235.500
13	9216.600	9215.900	9235.600	9250.800	9232.400	9245.700	9244.300	9257.500	9238.500	9223.600
14	9222.600	9211.100	9207.900	9216.400	9208.700	9223.000	9224.400	9235.000	9213.300	9229.300
15	9177.100	9196.200	9195.500	9212.500	9197.000	9217.400	9212.700	9217.800	9191.700	9217.600
16	9162.700	9171.700	9175.000	9190.200	9183.900	9201.000	9187.300	9218.700	9194.300	9222.300
17	9136.100	9146.000	9166.100	9180.300	9168.300	9168.700	9169.200	9201.200	9180.700	9202.100
18	9134.300	9128.900	9154.400	9161.400	9147.400	9147.800	9150.500	9183.500	9147.400	9198.600
19	9103.000	9115.200	9128.400	9128.700	9121.400	9140.200	9128.700	9158.800	9152.500	9155.800
20	9097.200	9100.100	9120.500	9119.500	9107.400	9116.500	9107.600	9145.700	9114.100	9128.000
21	9077.400	9075.500	9093.800	9099.600	9083.500	9100.900	9084.000	9122.900	9114.300	9093.600
22	9056.500	9045.000	9063.800	9059.700	9054.200	9069.000	9039.200	9100.800	9060.500	9075.300
23	9013.600	9020.300	9018.500	9039.600	9015.800	9032.700	9036.400	9062.300	9038.900	9041.000
24	8972.500	8979.400	8993.600	9013.200	8982.700	9002.800	8989.900	9021.700	9012.300	9009.300
25	8929.600	8941.500	8947.500	8963.500	8944.300	8956.300	8958.900	8982.300	8980.400	8979.400
26	8890.600	8900.100	8910.300	8923.000	8896.200	8912.000	8911.500	8937.500	8914.100	8939.700
27	8845.300	8845.300	8854.300	8874.300	8852.200	8861.400	8853.600	8892.300	8877.000	8894.100
28	8798.500	8797.600	8798.600	8824.100	8792.700	8816.700	8803.100	8836.700	8811.400	8830.400
29	8741.900	8745.000	8737.900	8753.500	8743.300	8763.300	8745.700	8773.700	8733.000	8736.800
30	8665.400	8673.000	8676.200	8688.600	8665.400	8688.400	8668.000	8686.800	8673.100	8651.800
31	8570.200	8588.300	8591.200	8610.800	8586.300	8613.000	8586.000	8604.400	8587.300	8574.100

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CANDELA TABULATION - (Cont.)

32	8461.000	8489.800	8499.200	8526.300	8489.300	8513.300	8503.000	8504.000	8499.500	8469.300
33	8349.500	8388.700	8407.100	8422.600	8377.600	8407.000	8402.200	8396.800	8394.800	8377.300
34	8237.900	8274.500	8273.200	8302.200	8256.000	8283.500	8257.000	8273.100	8270.100	8256.600
35	8095.900	8127.200	8125.800	8167.200	8115.400	8135.400	8116.800	8125.400	8133.700	8117.500
36	7923.800	7970.000	7972.300	8002.600	7944.500	7976.000	7952.600	7952.600	7964.900	7928.900
37	7720.400	7771.400	7761.400	7808.400	7739.200	7784.500	7734.500	7730.100	7755.700	7719.700
38	7469.000	7520.900	7490.600	7550.000	7488.100	7536.400	7444.300	7453.700	7503.500	7456.300
39	7128.400	7189.700	7160.500	7228.500	7174.300	7207.600	7126.700	7126.900	7175.200	7115.800
40	6690.200	6784.600	6759.400	6845.800	6784.300	6835.600	6754.500	6731.200	6760.400	6677.400
41	6196.100	6298.000	6282.300	6381.000	6333.500	6404.700	6309.800	6289.300	6306.600	6204.400
42	5710.800	5816.400	5804.600	5902.400	5852.000	5938.700	5849.300	5825.800	5822.900	5726.900
43	5223.200	5344.700	5348.600	5425.300	5379.700	5477.000	5407.700	5383.900	5366.200	5263.500
44	4785.500	4913.500	4899.100	4986.300	4923.500	5012.300	4970.700	4956.200	4934.500	4826.100
45	4399.700	4524.700	4520.600	4596.300	4512.500	4596.900	4560.200	4572.400	4546.900	4441.000
46	4055.800	4174.500	4165.600	4223.900	4160.500	4230.300	4195.400	4206.300	4191.800	4082.100
47	3733.600	3848.500	3840.800	3889.000	3835.400	3897.500	3865.300	3878.000	3862.800	3767.400
48	3454.000	3553.100	3540.600	3587.100	3548.500	3593.500	3560.500	3569.800	3584.600	3507.700
49	3193.500	3272.000	3265.100	3322.600	3289.800	3330.400	3293.000	3294.000	3331.000	3242.400
50	2958.300	3010.900	3012.100	3073.600	3046.600	3076.700	3032.800	3037.500	3084.900	3010.000
51	2735.400	2771.500	2765.100	2837.600	2819.900	2846.900	2797.900	2810.600	2842.900	2782.300
52	2532.600	2562.900	2545.800	2615.000	2607.300	2621.500	2587.800	2594.500	2627.900	2576.000
53	2342.100	2367.900	2352.000	2411.600	2407.200	2435.100	2388.400	2401.100	2435.400	2385.000
54	2157.400	2197.700	2172.400	2242.600	2229.400	2262.200	2206.500	2219.400	2262.400	2204.500
55	1994.900	2027.400	2009.900	2073.600	2059.600	2089.200	2043.900	2051.400	2089.500	2031.000
56	1832.800	1857.600	1852.300	1904.700	1903.200	1916.800	1884.400	1901.100	1917.100	1877.200
57	1687.200	1713.100	1712.100	1750.000	1749.100	1765.700	1742.400	1754.800	1767.400	1722.400
58	1544.200	1571.500	1570.700	1606.200	1606.000	1630.800	1603.800	1615.200	1623.800	1588.800
59	1421.000	1439.200	1439.900	1469.300	1480.100	1491.300	1472.600	1481.900	1491.100	1442.400
60	1290.700	1320.500	1317.700	1349.100	1349.800	1363.600	1358.400	1363.300	1364.000	1329.400
61	1174.900	1209.000	1200.400	1233.100	1230.400	1250.600	1244.400	1247.300	1247.700	1209.300
62	1069.300	1100.600	1099.800	1120.600	1120.800	1137.500	1135.800	1137.900	1130.600	1106.000
63	963.690	991.820	999.310	1017.900	1020.300	1032.000	1036.100	1035.900	1028.700	1003.200
64	870.440	895.810	898.790	917.960	919.870	932.590	936.600	934.000	929.070	900.330
65	756.140	790.960	796.230	817.720	819.090	833.560	839.280	836.340	828.610	802.850
66	594.020	643.600	651.430	688.160	694.500	717.510	719.580	716.140	709.960	682.400
67	384.520	444.550	461.680	504.600	508.720	546.840	543.760	540.890	543.480	509.330
68	215.570	249.950	264.550	299.890	311.620	339.440	336.040	332.470	341.560	313.140
69	123.900	133.570	138.160	158.680	161.120	180.460	177.250	171.580	184.470	175.800
70	103.370	107.360	108.330	113.620	114.410	118.090	118.420	118.440	120.190	120.080
71	86.069	88.951	90.053	94.211	94.949	98.299	98.611	98.507	100.920	100.220
72	68.935	71.734	72.445	75.928	76.885	79.696	80.483	80.308	81.812	82.032
73	56.467	58.082	58.774	61.155	61.586	64.102	64.248	64.219	65.815	65.591
74	52.738	52.602	53.052	53.498	53.855	55.053	55.615	55.711	56.723	57.264
75	51.432	50.982	51.494	51.696	52.121	52.524	53.475	53.721	54.356	55.490
76	50.812	50.228	50.727	50.730	51.273	51.436	52.549	52.836	53.186	54.560
77	49.964	49.448	50.021	50.021	50.562	50.762	51.760	52.091	52.458	53.742
78	48.862	48.413	49.028	49.052	49.645	49.898	50.798	51.174	51.503	52.915
79	47.478	47.154	47.626	47.790	48.326	48.600	49.593	49.908	50.382	51.514
80	45.460	45.368	45.912	46.220	46.599	47.065	47.960	48.197	48.642	49.775
81	43.118	43.089	43.603	44.007	44.457	44.824	45.765	46.001	46.500	47.490
82	40.272	40.406	40.899	41.356	41.798	42.376	43.124	43.435	44.020	44.793
83	36.883	37.167	37.801	38.370	38.710	39.460	40.135	40.286	40.935	41.616
84	32.956	33.368	34.048	34.696	35.041	35.867	36.482	36.503	37.225	37.777
85	28.395	28.975	29.552	30.284	30.834	31.667	32.213	32.296	32.792	33.436
86	23.367	24.064	24.711	25.472	26.009	26.980	27.428	27.476	27.938	28.389
87	17.958	18.676	19.309	20.084	20.701	21.553	22.099	22.130	22.598	23.016

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

CANDELA TABULATION - (Cont.)

88	12.260	12.876	13.685	14.379	15.111	15.881	16.465	16.471	16.777	17.231
89	6.586	6.971	7.882	8.374	9.296	9.835	10.533	10.426	10.625	11.110
90	1.065	1.737	3.124	3.695	4.754	4.835	5.506	5.425	5.425	5.856

Vert. Angles

Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100	9319.100
1	9314.000	9319.000	9326.600	9319.600	9320.500	9338.000	9310.200
2	9307.500	9310.900	9323.700	9309.800	9308.400	9333.700	9306.900
3	9311.700	9316.600	9333.500	9318.800	9299.400	9301.700	9307.200
4	9311.000	9304.100	9323.700	9319.300	9288.500	9298.900	9297.600
5	9304.600	9300.900	9313.100	9307.300	9280.300	9298.500	9296.800
6	9317.800	9299.300	9301.800	9295.800	9273.700	9308.700	9294.900
7	9292.000	9282.900	9275.000	9282.300	9250.900	9288.400	9279.100
8	9290.600	9263.800	9277.400	9278.800	9256.900	9274.000	9257.400
9	9274.700	9248.800	9256.600	9261.200	9246.500	9246.500	9256.200
10	9256.900	9228.000	9224.700	9257.900	9211.800	9267.200	9237.000
11	9250.900	9234.000	9209.200	9230.900	9205.700	9235.200	9211.200
12	9235.000	9226.100	9202.100	9223.400	9192.100	9213.100	9201.500
13	9212.200	9211.000	9188.200	9208.800	9184.400	9195.000	9179.200
14	9198.600	9195.500	9200.300	9204.300	9157.900	9189.900	9160.600
15	9193.300	9183.200	9168.900	9191.800	9153.600	9176.500	9147.500
16	9193.300	9165.000	9164.600	9174.900	9121.200	9153.300	9133.000
17	9185.500	9139.500	9140.000	9158.700	9105.800	9131.900	9108.500
18	9164.100	9125.600	9122.500	9124.900	9097.700	9102.700	9097.200
19	9129.900	9100.900	9105.300	9133.300	9088.800	9097.500	9071.100
20	9103.400	9077.900	9076.100	9085.500	9063.100	9067.000	9052.500
21	9076.600	9060.500	9039.900	9058.300	9035.500	9027.300	9018.400
22	9044.300	9036.000	9027.300	9023.100	8989.900	8970.300	8983.200
23	9021.000	9008.500	9006.900	8985.000	8950.400	8959.600	8926.800
24	8993.800	8971.800	8966.000	8945.100	8911.500	8916.600	8875.300
25	8937.100	8923.400	8916.400	8908.200	8882.400	8883.600	8850.800
26	8886.300	8878.600	8863.500	8854.600	8818.800	8830.900	8802.400
27	8832.100	8826.600	8806.000	8797.100	8759.000	8752.200	8734.900
28	8771.500	8755.300	8750.900	8734.300	8691.900	8686.900	8663.300
29	8706.000	8688.700	8693.000	8669.100	8632.500	8624.500	8599.400
30	8632.500	8619.700	8608.900	8581.400	8563.200	8549.200	8502.600
31	8552.800	8550.000	8517.800	8494.500	8465.500	8435.900	8423.100
32	8443.500	8456.800	8430.500	8396.900	8363.000	8347.000	8306.000
33	8345.600	8352.700	8329.700	8282.300	8242.400	8245.400	8182.400
34	8244.100	8224.700	8189.800	8148.600	8117.800	8095.900	8051.300
35	8086.900	8073.300	8040.800	7992.100	7956.000	7929.500	7888.400
36	7939.000	7897.000	7872.100	7825.600	7769.200	7752.400	7691.300
37	7729.500	7664.500	7644.100	7592.600	7544.100	7501.600	7440.000
38	7445.300	7384.600	7374.000	7328.200	7260.100	7161.400	7092.600
39	7100.700	7039.600	7017.400	6939.900	6878.300	6735.700	6660.500
40	6681.100	6591.300	6590.100	6485.000	6434.900	6255.800	6202.500
41	6216.600	6110.300	6096.800	5988.600	5928.500	5799.400	5743.100
42	5739.600	5637.600	5603.600	5483.600	5448.300	5364.500	5294.400
43	5279.500	5187.300	5150.900	5022.400	5018.000	4942.700	4881.300
44	4845.500	4758.500	4708.800	4597.800	4600.400	4539.200	4482.200
45	4461.300	4363.100	4310.000	4193.900	4211.300	4137.000	4117.200
46	4105.200	4000.700	3945.400	3851.400	3850.400	3786.500	3786.500
47	3757.900	3653.100	3612.300	3536.600	3513.000	3445.600	3477.200
48	3463.600	3343.000	3318.200	3251.200	3231.800	3154.600	3198.600

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

CANDELA TABULATION - (Cont.)

49	3188.900	3077.900	3054.000	2986.300	2964.700	2893.600	2937.200
50	2953.400	2826.800	2804.500	2755.900	2717.700	2665.400	2690.300
51	2706.600	2602.200	2590.400	2544.000	2507.200	2441.800	2477.000
52	2500.500	2394.000	2390.600	2351.200	2320.600	2247.300	2298.800
53	2321.800	2213.100	2219.800	2161.600	2133.900	2079.400	2120.500
54	2143.100	2039.200	2049.000	1994.400	1948.700	1922.800	1943.000
55	1965.000	1889.900	1878.700	1837.000	1803.000	1772.600	1797.600
56	1825.600	1752.200	1729.100	1687.100	1661.900	1640.000	1661.200
57	1682.600	1617.800	1591.600	1548.700	1536.100	1507.300	1528.800
58	1545.500	1492.000	1459.400	1410.000	1410.300	1393.000	1404.000
59	1424.700	1376.300	1342.800	1296.400	1290.900	1274.800	1293.600
60	1303.900	1261.600	1222.300	1188.000	1182.300	1169.400	1178.200
61	1194.000	1149.600	1116.500	1086.300	1078.700	1070.600	1077.100
62	1086.500	1053.400	1014.300	984.710	981.590	971.850	984.920
63	985.610	957.280	915.730	883.120	890.670	883.980	890.860
64	893.720	866.400	832.480	797.190	801.630	800.540	804.360
65	801.450	774.070	742.340	712.650	718.100	714.230	720.040
66	685.550	659.200	635.130	599.850	610.480	596.620	606.830
67	525.650	496.200	473.500	444.330	457.890	435.850	444.380
68	333.980	301.740	286.830	280.350	284.310	260.250	260.780
69	182.650	160.650	169.990	159.160	158.700	147.320	146.270
70	121.110	120.100	120.800	118.880	118.100	115.830	115.670
71	101.670	100.490	101.400	99.568	99.336	97.081	97.263
72	83.604	82.392	83.259	81.305	81.480	79.358	79.750
73	66.805	66.234	67.051	66.499	66.644	65.837	66.369
74	58.112	58.692	59.481	60.499	60.759	61.632	61.982
75	56.028	56.910	57.760	58.994	59.110	60.176	60.532
76	54.974	56.148	56.796	58.173	58.335	59.463	59.770
77	54.261	55.401	55.994	57.317	57.480	58.578	58.808
78	53.238	54.375	55.022	56.258	56.282	57.489	57.647
79	52.066	52.998	53.709	54.773	54.965	55.745	56.110
80	50.251	51.094	51.798	52.707	52.879	53.681	53.954
81	48.036	48.794	49.561	50.279	50.381	51.112	51.395
82	45.414	46.073	46.776	47.393	47.419	48.054	48.208
83	42.248	42.775	43.373	43.836	43.886	44.285	44.491
84	38.383	38.804	39.437	39.649	39.654	39.872	40.074
85	33.936	34.231	34.702	34.786	34.709	34.787	34.820
86	28.904	29.050	29.533	29.477	29.375	29.389	29.228
87	23.331	23.512	23.789	23.657	23.426	23.306	22.962
88	17.408	17.539	17.641	17.481	17.155	16.999	16.465
89	11.046	11.279	11.108	11.039	10.524	10.267	9.567
90	5.778	5.993	5.915	5.820	5.488	5.079	4.293

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3479.56	N.A.	19.20
0-30	7564.06	N.A.	41.70
0-40	12405.79	N.A.	68.30
0-60	17414.88	N.A.	95.90
0-80	18126.24	N.A.	99.80
0-90	18157.92	N.A.	100.00
10-90	17272.02	N.A.	95.10
20-40	8926.23	N.A.	49.20
20-50	12238.25	N.A.	67.40
40-70	5653.55	N.A.	31.10
60-80	711.36	N.A.	3.90
70-80	66.90	N.A.	0.40
80-90	31.68	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	18157.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	885.90
10-20	2593.66
20-30	4084.5
30-40	4841.73
40-50	3312.03
50-60	1697.07
60-70	644.46
70-80	66.90
80-90	31.68
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PHM7572A HIGHLIGHT 919002151945_1, 20K SETTING.IES

UGR TABLE - CORRECTED

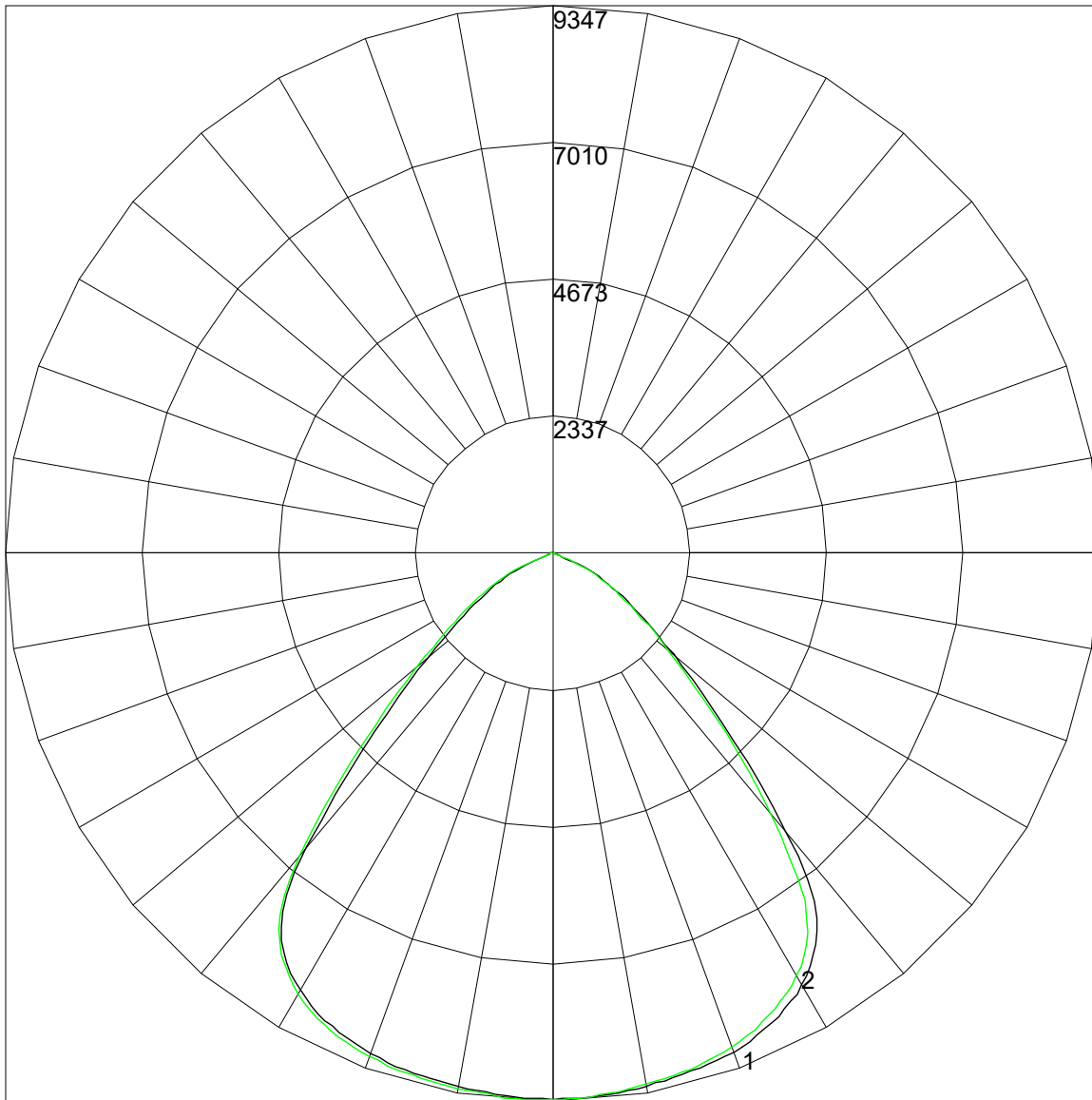
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.2	20.5	19.6	20.9	21.2	18.9	20.2	19.3	20.6	20.9
	3H	19.2	20.4	19.6	20.7	21.1	18.9	20.0	19.2	20.3	20.7
	4H	19.1	20.2	19.5	20.6	20.9	18.8	19.9	19.2	20.2	20.6
	6H	19.1	20.1	19.5	20.4	20.8	18.7	19.7	19.2	20.1	20.5
	8H	19.1	20.0	19.5	20.4	20.8	18.7	19.6	19.1	20.0	20.4
	12H	19.0	19.9	19.5	20.3	20.7	18.7	19.6	19.1	19.9	20.4
4H	2H	19.4	20.5	19.8	20.8	21.2	19.1	20.2	19.5	20.5	20.9
	3H	19.4	20.3	19.8	20.7	21.1	19.0	19.9	19.4	20.3	20.7
	4H	19.3	20.1	19.7	20.5	21.0	18.9	19.7	19.4	20.1	20.6
	6H	19.3	19.9	19.7	20.4	20.8	18.9	19.6	19.3	20.0	20.5
	8H	19.2	19.9	19.7	20.3	20.8	18.9	19.5	19.3	19.9	20.4
	12H	19.2	19.8	19.7	20.2	20.7	18.8	19.4	19.3	19.9	20.3
8H	4H	19.2	19.8	19.7	20.3	20.7	18.8	19.4	19.3	19.9	20.4
	6H	19.1	19.6	19.7	20.1	20.6	18.8	19.3	19.3	19.8	20.2
	8H	19.1	19.6	19.6	20.1	20.6	18.7	19.2	19.3	19.7	20.2
	12H	19.1	19.5	19.6	20.0	20.6	18.7	19.1	19.2	19.6	20.2
12H	4H	19.1	19.7	19.6	20.2	20.7	18.8	19.3	19.3	19.8	20.3
	6H	19.1	19.5	19.6	20.0	20.6	18.7	19.2	19.2	19.6	20.2
	8H	19.1	19.5	19.6	20.0	20.6	18.7	19.1	19.2	19.6	20.2

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 9346.9 Located At Horizontal Angle = 250, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

- END OF REPORT -