

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX08LL40-UNV-N-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33948.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/17/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-N-LFA

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER NARROW OPTICS 10.5K RESISTOR DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 8635 LMS

[TESTDATE] 12/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	75.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4096	3294	3138
55	3043	2320	2231
65	2303	1658	1620
75	1593	1093	1124
85	644	576	716

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43
2.5	5680.07	5676.51	5675.49	5658.68	5644.68	5658.68	5675.49	5676.51	5680.07	5676.51
5.0	5607.98	5601.70	5606.70	5590.26	5572.14	5590.26	5606.70	5601.70	5607.98	5601.70
7.5	5502.01	5489.68	5487.76	5467.27	5452.70	5467.27	5487.76	5489.68	5502.01	5489.68
10.0	5352.89	5341.19	5328.42	5309.26	5281.82	5309.26	5328.42	5341.19	5352.89	5341.19
12.5	5166.71	5155.38	5132.74	5095.94	5070.55	5095.94	5132.74	5155.38	5166.71	5155.38
15.0	4943.28	4933.73	4903.88	4847.81	4818.18	4847.81	4903.88	4933.73	4943.28	4933.73
17.5	4692.81	4683.10	4638.64	4578.84	4546.41	4578.84	4638.64	4683.10	4692.81	4683.10
20.0	4414.69	4404.57	4348.37	4286.05	4248.75	4286.05	4348.37	4404.57	4414.69	4404.57
22.5	4115.55	4103.64	4042.25	3972.59	3934.79	3972.59	4042.25	4103.64	4115.55	4103.64
25.0	3801.57	3787.31	3723.49	3657.10	3617.56	3657.10	3723.49	3787.31	3801.57	3787.31
27.5	3481.02	3468.26	3409.55	3345.55	3302.39	3345.55	3409.55	3468.26	3481.02	3468.26
30.0	3175.38	3156.26	3100.33	3033.24	3000.72	3033.24	3100.33	3156.26	3175.38	3156.26
32.5	2865.76	2851.84	2797.11	2734.77	2710.26	2734.77	2797.11	2851.84	2865.76	2851.84
35.0	2570.06	2561.15	2507.88	2458.78	2436.52	2458.78	2507.88	2561.15	2570.06	2561.15
37.5	2296.49	2288.91	2245.35	2203.32	2186.78	2203.32	2245.35	2288.91	2296.49	2288.91
40.0	2053.84	2044.88	2008.67	1972.65	1957.83	1972.65	2008.67	2044.88	2053.84	2044.88
42.5	1836.70	1825.60	1794.80	1769.13	1750.28	1769.13	1794.80	1825.60	1836.70	1825.60
45.0	1638.44	1630.85	1605.91	1581.98	1566.99	1581.98	1605.91	1630.85	1638.44	1630.85
47.5	1462.32	1455.22	1437.77	1412.11	1405.22	1412.11	1437.77	1455.22	1462.32	1455.22
50.0	1302.35	1296.86	1283.61	1266.35	1258.76	1266.35	1283.61	1296.86	1302.35	1296.86
52.5	1161.07	1157.29	1145.63	1137.38	1128.66	1137.38	1145.63	1157.29	1161.07	1157.29
55.0	1031.56	1031.29	1021.69	1015.01	1013.01	1015.01	1021.69	1031.29	1031.56	1031.29
57.5	915.87	917.37	911.43	906.43	906.19	906.43	911.43	917.37	915.87	917.37
60.0	808.48	811.47	809.93	811.67	809.75	811.67	809.93	811.47	808.48	811.47
62.5	709.39	713.56	717.22	721.79	722.10	721.79	717.22	713.56	709.39	713.56
65.0	616.46	623.02	629.68	637.05	639.68	637.05	629.68	623.02	616.46	623.02
67.5	528.50	538.95	547.94	559.83	562.17	559.83	547.94	538.95	528.50	538.95
70.0	447.59	459.05	472.32	488.20	491.04	488.20	472.32	459.05	447.59	459.05
72.5	371.07	383.98	402.29	420.32	425.68	420.32	402.29	383.98	371.07	383.98
75.0	299.75	314.36	336.21	357.52	364.00	357.52	336.21	314.36	299.75	314.36
77.5	230.75	248.28	274.45	300.17	307.01	300.17	274.45	248.28	230.75	248.28
80.0	167.96	187.20	218.82	247.48	255.90	247.48	218.82	187.20	167.96	187.20
82.5	111.97	132.79	169.83	201.67	211.61	201.67	169.83	132.79	111.97	132.79
85.0	66.29	89.42	130.32	164.33	174.00	164.33	130.32	89.42	66.29	89.42
87.5	35.14	60.91	103.21	136.50	145.99	136.50	103.21	60.91	35.14	60.91
90.0	23.29	43.83	81.83	112.44	122.38	112.44	81.83	43.83	23.29	43.83
92.5	22.13	36.28	66.13	92.80	102.06	92.80	66.13	36.28	22.13	36.28
95.0	21.36	33.65	57.38	79.26	87.07	79.26	57.38	33.65	21.36	33.65
97.5	20.50	31.19	52.82	70.83	77.44	70.83	52.82	31.19	20.50	31.19
100.0	19.30	28.58	49.09	65.76	71.49	65.76	49.09	28.58	19.30	28.58
102.5	17.88	26.06	45.82	61.94	67.35	61.94	45.82	26.06	17.88	26.06
105.0	16.40	23.61	42.82	58.53	64.06	58.53	42.82	23.61	16.40	23.61
107.5	14.94	21.20	39.82	55.18	60.93	55.18	39.82	21.20	14.94	21.20
110.0	13.42	18.77	36.76	51.98	57.57	51.98	36.76	18.77	13.42	18.77
112.5	11.93	16.35	33.77	48.51	54.29	48.51	33.77	16.35	11.93	16.35
115.0	10.52	14.00	30.88	45.06	50.79	45.06	30.88	14.00	10.52	14.00
117.5	9.15	11.79	27.92	41.75	47.29	41.75	27.92	11.79	9.15	11.79
120.0	7.95	9.65	24.95	38.52	43.89	38.52	24.95	9.65	7.95	9.65
122.5	6.76	7.76	22.18	35.13	40.22	35.13	22.18	7.76	6.76	7.76
125.0	5.64	6.06	19.39	31.68	36.74	31.68	19.39	6.06	5.64	6.06
127.5	4.68	4.46	16.59	28.57	33.52	28.57	16.59	4.46	4.68	4.46
130.0	3.86	3.31	13.92	25.45	30.03	25.45	13.92	3.31	3.86	3.31
132.5	3.12	2.52	11.46	22.34	26.61	22.34	11.46	2.52	3.12	2.52

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CANDELA TABULATION - (Cont.)

135.0	2.48	1.98	9.03	19.40	23.20	19.40	9.03	1.98	2.48	1.98
137.5	1.88	1.48	6.82	16.32	19.92	16.32	6.82	1.48	1.88	1.48
140.0	1.37	1.03	4.82	13.43	16.63	13.43	4.82	1.03	1.37	1.03
142.5	0.85	0.67	3.21	10.65	13.53	10.65	3.21	0.67	0.85	0.67
145.0	0.50	0.33	1.95	8.13	10.60	8.13	1.95	0.33	0.50	0.33
147.5	0.24	0.20	1.06	5.84	7.98	5.84	1.06	0.20	0.24	0.20
150.0	0.04	0.06	0.54	3.91	5.62	3.91	0.54	0.06	0.04	0.06
152.5	0.00	0.17	0.45	2.39	3.70	2.39	0.45	0.17	0.00	0.17
155.0	0.12	0.26	0.47	1.23	2.20	1.23	0.47	0.26	0.12	0.26
157.5	0.21	0.33	0.57	0.78	1.39	0.78	0.57	0.33	0.21	0.33
160.0	0.27	0.40	0.56	0.83	0.95	0.83	0.56	0.40	0.27	0.40
162.5	0.45	0.56	0.63	0.75	0.89	0.75	0.63	0.56	0.45	0.56
165.0	0.46	0.52	0.75	0.80	0.89	0.80	0.75	0.52	0.46	0.52
167.5	0.45	0.54	0.63	0.81	0.85	0.81	0.63	0.54	0.45	0.54
170.0	0.54	0.57	0.69	0.82	0.92	0.82	0.69	0.57	0.54	0.57
172.5	0.71	0.72	0.79	0.87	0.98	0.87	0.79	0.72	0.71	0.72
175.0	0.81	0.87	0.85	0.95	1.04	0.95	0.85	0.87	0.81	0.87
177.5	0.94	0.97	0.87	1.00	1.07	1.00	0.87	0.97	0.94	0.97
180.0	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43	5694.43
2.5	5675.49	5658.68	5644.68	5658.68	5675.49	5676.51	5680.07
5.0	5606.70	5590.26	5572.14	5590.26	5606.70	5601.70	5607.98
7.5	5487.76	5467.27	5452.70	5467.27	5487.76	5489.68	5502.01
10.0	5328.42	5309.26	5281.82	5309.26	5328.42	5341.19	5352.89
12.5	5132.74	5095.94	5070.55	5095.94	5132.74	5155.38	5166.71
15.0	4903.88	4847.81	4818.18	4847.81	4903.88	4933.73	4943.28
17.5	4638.64	4578.84	4546.41	4578.84	4638.64	4683.10	4692.81
20.0	4348.37	4286.05	4248.75	4286.05	4348.37	4404.57	4414.69
22.5	4042.25	3972.59	3934.79	3972.59	4042.25	4103.64	4115.55
25.0	3723.49	3657.10	3617.56	3657.10	3723.49	3787.31	3801.57
27.5	3409.55	3345.55	3302.39	3345.55	3409.55	3468.26	3481.02
30.0	3100.33	3033.24	3000.72	3033.24	3100.33	3156.26	3175.38
32.5	2797.11	2734.77	2710.26	2734.77	2797.11	2851.84	2865.76
35.0	2507.88	2458.78	2436.52	2458.78	2507.88	2561.15	2570.06
37.5	2245.35	2203.32	2186.78	2203.32	2245.35	2288.91	2296.49
40.0	2008.67	1972.65	1957.83	1972.65	2008.67	2044.88	2053.84
42.5	1794.80	1769.13	1750.28	1769.13	1794.80	1825.60	1836.70
45.0	1605.91	1581.98	1566.99	1581.98	1605.91	1630.85	1638.44
47.5	1437.77	1412.11	1405.22	1412.11	1437.77	1455.22	1462.32
50.0	1283.61	1266.35	1258.76	1266.35	1283.61	1296.86	1302.35
52.5	1145.63	1137.38	1128.66	1137.38	1145.63	1157.29	1161.07
55.0	1021.69	1015.01	1013.01	1015.01	1021.69	1031.29	1031.56
57.5	911.43	906.43	906.19	906.43	911.43	917.37	915.87
60.0	809.93	811.67	809.75	811.67	809.93	811.47	808.48
62.5	717.22	721.79	722.10	721.79	717.22	713.56	709.39
65.0	629.68	637.05	639.68	637.05	629.68	623.02	616.46
67.5	547.94	559.83	562.17	559.83	547.94	538.95	528.50
70.0	472.32	488.20	491.04	488.20	472.32	459.05	447.59
72.5	402.29	420.32	425.68	420.32	402.29	383.98	371.07
75.0	336.21	357.52	364.00	357.52	336.21	314.36	299.75
77.5	274.45	300.17	307.01	300.17	274.45	248.28	230.75
80.0	218.82	247.48	255.90	247.48	218.82	187.20	167.96

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CANDELA TABULATION - (Cont.)

82.5	169.83	201.67	211.61	201.67	169.83	132.79	111.97
85.0	130.32	164.33	174.00	164.33	130.32	89.42	66.29
87.5	103.21	136.50	145.99	136.50	103.21	60.91	35.14
90.0	81.83	112.44	122.38	112.44	81.83	43.83	23.29
92.5	66.13	92.80	102.06	92.80	66.13	36.28	22.13
95.0	57.38	79.26	87.07	79.26	57.38	33.65	21.36
97.5	52.82	70.83	77.44	70.83	52.82	31.19	20.50
100.0	49.09	65.76	71.49	65.76	49.09	28.58	19.30
102.5	45.82	61.94	67.35	61.94	45.82	26.06	17.88
105.0	42.82	58.53	64.06	58.53	42.82	23.61	16.40
107.5	39.82	55.18	60.93	55.18	39.82	21.20	14.94
110.0	36.76	51.98	57.57	51.98	36.76	18.77	13.42
112.5	33.77	48.51	54.29	48.51	33.77	16.35	11.93
115.0	30.88	45.06	50.79	45.06	30.88	14.00	10.52
117.5	27.92	41.75	47.29	41.75	27.92	11.79	9.15
120.0	24.95	38.52	43.89	38.52	24.95	9.65	7.95
122.5	22.18	35.13	40.22	35.13	22.18	7.76	6.76
125.0	19.39	31.68	36.74	31.68	19.39	6.06	5.64
127.5	16.59	28.57	33.52	28.57	16.59	4.46	4.68
130.0	13.92	25.45	30.03	25.45	13.92	3.31	3.86
132.5	11.46	22.34	26.61	22.34	11.46	2.52	3.12
135.0	9.03	19.40	23.20	19.40	9.03	1.98	2.48
137.5	6.82	16.32	19.92	16.32	6.82	1.48	1.88
140.0	4.82	13.43	16.63	13.43	4.82	1.03	1.37
142.5	3.21	10.65	13.53	10.65	3.21	0.67	0.85
145.0	1.95	8.13	10.60	8.13	1.95	0.33	0.50
147.5	1.06	5.84	7.98	5.84	1.06	0.20	0.24
150.0	0.54	3.91	5.62	3.91	0.54	0.06	0.04
152.5	0.45	2.39	3.70	2.39	0.45	0.17	0.00
155.0	0.47	1.23	2.20	1.23	0.47	0.26	0.12
157.5	0.57	0.78	1.39	0.78	0.57	0.33	0.21
160.0	0.56	0.83	0.95	0.83	0.56	0.40	0.27
162.5	0.63	0.75	0.89	0.75	0.63	0.56	0.45
165.0	0.75	0.80	0.89	0.80	0.75	0.52	0.46
167.5	0.63	0.81	0.85	0.81	0.63	0.54	0.45
170.0	0.69	0.82	0.92	0.82	0.69	0.57	0.54
172.5	0.79	0.87	0.98	0.87	0.79	0.72	0.71
175.0	0.85	0.95	1.04	0.95	0.85	0.87	0.81
177.5	0.87	1.00	1.07	1.00	0.87	0.97	0.94
180.0	0.94	0.94	0.94	0.94	0.94	0.94	0.94

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1891.87	N.A.	21.90
0-30	3596.46	N.A.	41.60
0-40	5168.8	N.A.	59.90
0-60	7337.41	N.A.	85.00
0-80	8321.54	N.A.	96.40
0-90	8467.94	N.A.	98.10
10-90	7942.39	N.A.	92.00
20-40	3276.93	N.A.	37.90
20-50	4524.02	N.A.	52.40
40-70	2795.77	N.A.	32.40
60-80	984.13	N.A.	11.40
70-80	356.97	N.A.	4.10
80-90	146.40	N.A.	1.70
90-110	107.62	N.A.	1.20
90-120	137.66	N.A.	1.60
90-130	155.40	N.A.	1.80
90-150	166.59	N.A.	1.90
90-180	167.31	N.A.	1.90
110-180	59.69	N.A.	0.70
0-180	8635.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	525.55
10-20	1366.31
20-30	1704.59
30-40	1572.34
40-50	1247.09
50-60	921.52
60-70	627.16
70-80	356.97
80-90	146.40
90-100	63.83
100-110	43.79
110-120	30.04
120-130	17.74
130-140	8.50
140-150	2.68
150-160	0.46
160-170	0.19
170-180	0.08

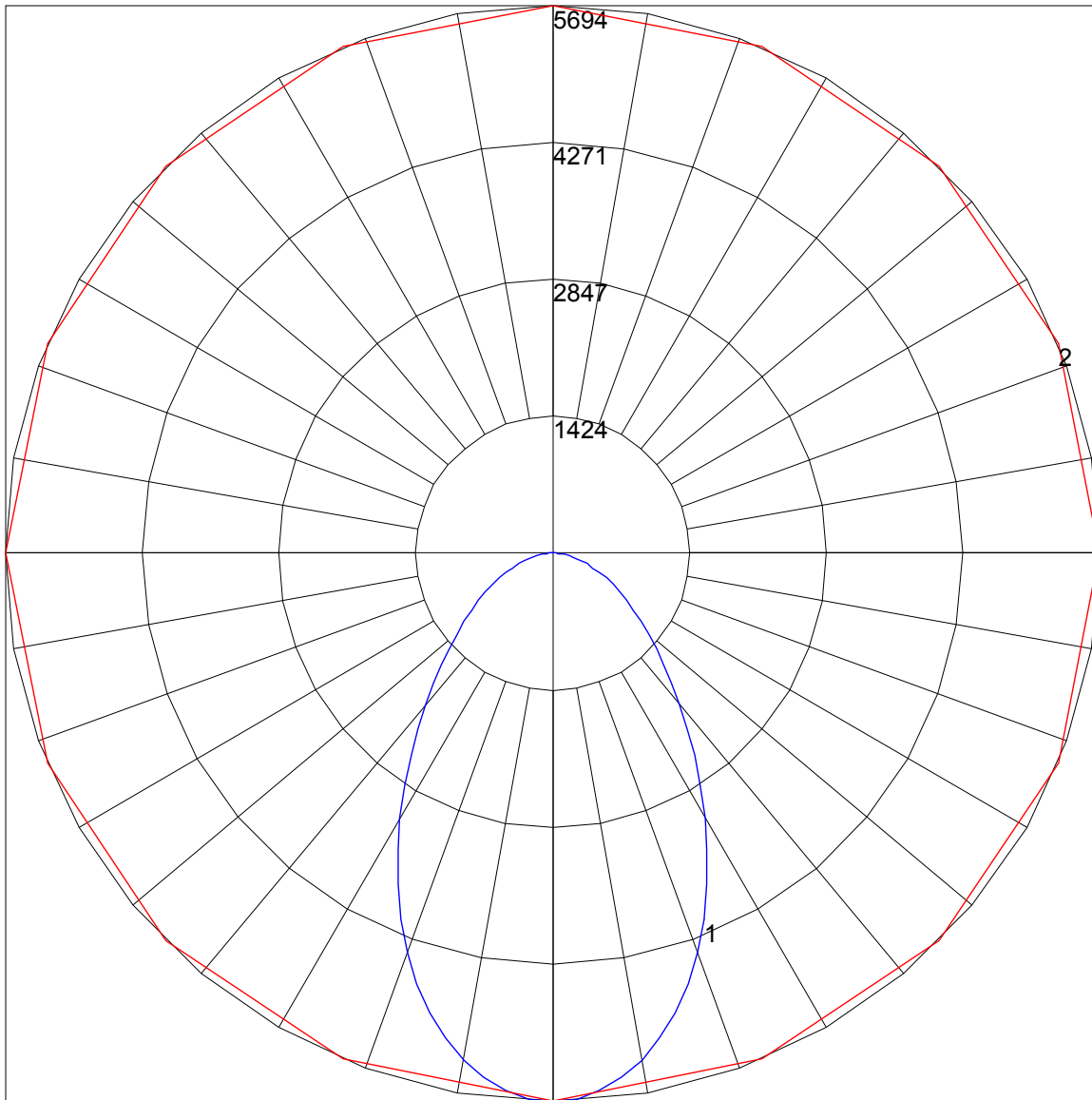
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	94	95	92	90	91	89	87	85
2	102	94	89	84	99	92	87	83	89	84	80	85	82	78	82	79	76	74
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65
4	87	77	69	63	85	75	68	63	73	67	62	70	65	61	68	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	76	64	56	51	74	63	56	50	61	55	50	59	54	49	58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	48	44	42
8	67	55	47	42	65	54	47	42	52	46	41	51	45	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

POLAR GRAPH



Maximum Candela = 5694.43 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)