

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX08LL40-UNV-LCP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33944.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/17/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-LCP

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER NO OPTICS 10.5K RESISTOR DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 9439 LMS

[TESTDATE] 12/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9439
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	75.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
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	5563	4747	4510
55	5039	3946	2228
65	4112	1600	3403
75	2608	2378	2142
85	1028	1071	1491

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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	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05
2.5	3166.29	3165.76	3170.53	3166.59	3166.19	3166.59	3170.53	3165.76	3166.29	3165.76
5.0	3161.94	3155.02	3162.99	3166.48	3161.61	3166.48	3162.99	3155.02	3161.94	3155.02
7.5	3148.30	3143.58	3158.63	3166.91	3156.91	3166.91	3158.63	3143.58	3148.30	3143.58
10.0	3131.09	3127.59	3139.89	3150.45	3145.09	3150.45	3139.89	3127.59	3131.09	3127.59
12.5	3103.40	3108.28	3119.62	3127.40	3135.31	3127.40	3119.62	3108.28	3103.40	3108.28
15.0	3074.80	3085.60	3093.88	3099.72	3102.93	3099.72	3093.88	3085.60	3074.80	3085.60
17.5	3039.60	3054.23	3062.07	3058.98	3063.43	3058.98	3062.07	3054.23	3039.60	3054.23
20.0	3002.58	3016.51	3018.00	3017.26	3019.48	3017.26	3018.00	3016.51	3002.58	3016.51
22.5	2953.89	2966.86	2967.73	2965.70	2968.69	2965.70	2967.73	2966.86	2953.89	2966.86
25.0	2904.36	2916.10	2920.35	2917.14	2911.78	2917.14	2920.35	2916.10	2904.36	2916.10
27.5	2846.72	2856.67	2855.83	2854.86	2849.63	2854.86	2855.83	2856.67	2846.72	2856.67
30.0	2781.51	2795.01	2792.97	2788.39	2784.78	2788.39	2792.97	2795.01	2781.51	2795.01
32.5	2716.01	2725.29	2723.51	2711.81	2716.06	2711.81	2723.51	2725.29	2716.01	2725.29
35.0	2627.53	2647.27	2640.58	2633.54	2648.73	2633.54	2640.58	2647.27	2627.53	2647.27
37.5	2530.40	2551.23	2549.32	2572.98	2608.80	2572.98	2549.32	2551.23	2530.40	2551.23
40.0	2445.07	2453.16	2453.24	2528.82	2508.68	2528.82	2453.24	2453.16	2445.07	2453.16
42.5	2334.90	2356.17	2368.11	2397.78	2391.89	2397.78	2368.11	2356.17	2334.90	2356.17
45.0	2225.03	2237.97	2314.42	2294.07	2251.94	2294.07	2314.42	2237.97	2225.03	2237.97
47.5	2106.97	2118.13	2179.69	2138.44	2172.76	2138.44	2179.69	2118.13	2106.97	2118.13
50.0	1980.20	1992.06	2030.66	2061.47	2086.71	2061.47	2030.66	1992.06	1980.20	1992.06
52.5	1842.64	1859.90	1916.16	1954.12	1983.59	1954.12	1916.16	1859.90	1842.64	1859.90
55.0	1708.10	1738.14	1737.77	1817.37	1011.32	1817.37	1737.77	1738.14	1708.10	1738.14
57.5	1561.30	1577.38	1634.72	850.44	870.18	850.44	1634.72	1577.38	1561.30	1577.38
60.0	1412.33	1433.74	1485.74	797.40	925.81	797.40	1485.74	1433.74	1412.33	1433.74
62.5	1260.70	1273.68	1217.78	820.34	1343.25	820.34	1217.78	1273.68	1260.70	1273.68
65.0	1100.40	1116.24	607.80	1269.39	1343.88	1269.39	607.80	1116.24	1100.40	1116.24
67.5	943.94	965.83	550.98	1157.66	1133.39	1157.66	550.98	965.83	943.94	965.83
70.0	784.78	799.33	524.80	1045.39	996.62	1045.39	524.80	799.33	784.78	799.33
72.5	634.54	673.37	794.98	813.33	888.95	813.33	794.98	673.37	634.54	673.37
75.0	490.64	460.12	731.84	777.63	693.58	777.63	731.84	460.12	490.64	460.12
77.5	360.24	254.02	581.17	533.09	467.31	533.09	581.17	254.02	360.24	254.02
80.0	250.74	191.15	404.39	391.69	417.86	391.69	404.39	191.15	250.74	191.15
82.5	165.11	140.99	349.60	392.61	423.24	392.61	349.60	140.99	165.11	140.99
85.0	105.89	119.57	242.38	350.31	362.08	350.31	242.38	119.57	105.89	119.57
87.5	69.64	151.79	260.87	244.33	246.89	244.33	260.87	151.79	69.64	151.79
90.0	43.94	107.62	167.84	132.03	117.50	132.03	167.84	107.62	43.94	107.62
92.5	36.12	76.31	72.42	50.32	51.38	50.32	72.42	76.31	36.12	76.31
95.0	42.30	48.86	32.59	34.60	40.98	34.60	32.59	48.86	42.30	48.86
97.5	52.35	27.13	28.12	41.47	46.60	41.47	28.12	27.13	52.35	27.13
100.0	56.07	26.29	35.37	48.26	50.71	48.26	35.37	26.29	56.07	26.29
102.5	54.29	27.27	25.64	30.76	34.77	30.76	25.64	27.27	54.29	27.27
105.0	49.88	29.73	20.42	21.92	22.13	21.92	20.42	29.73	49.88	29.73
107.5	44.36	30.19	18.20	18.79	18.81	18.79	18.20	30.19	44.36	30.19
110.0	38.62	28.44	16.47	16.49	17.89	16.49	16.47	28.44	38.62	28.44
112.5	33.19	25.35	15.56	14.38	15.41	14.38	15.56	25.35	33.19	25.35
115.0	28.31	22.34	14.69	12.99	13.74	12.99	14.69	22.34	28.31	22.34
117.5	24.06	20.49	13.93	11.72	12.33	11.72	13.93	20.49	24.06	20.49
120.0	20.48	20.57	12.99	10.46	11.14	10.46	12.99	20.57	20.48	20.57
122.5	17.18	18.50	13.31	9.62	9.91	9.62	13.31	18.50	17.18	18.50
125.0	14.18	13.25	19.77	9.09	9.18	9.09	19.77	13.25	14.18	13.25
127.5	11.49	10.07	51.42	10.70	9.37	10.70	51.42	10.07	11.49	10.07
130.0	9.25	7.93	35.01	23.61	14.54	23.61	35.01	7.93	9.25	7.93
132.5	7.34	6.46	12.71	69.97	53.16	69.97	12.71	6.46	7.34	6.46

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CANDELA TABULATION - (Cont.)

135.0	5.64	4.94	7.91	50.24	57.92	50.24	7.91	4.94	5.64	4.94
137.5	4.22	3.69	5.02	15.38	40.17	15.38	5.02	3.69	4.22	3.69
140.0	3.04	2.63	3.05	8.49	13.28	8.49	3.05	2.63	3.04	2.63
142.5	2.09	1.76	1.78	5.29	7.47	5.29	1.78	1.76	2.09	1.76
145.0	1.33	1.09	0.97	3.39	4.64	3.39	0.97	1.09	1.33	1.09
147.5	0.76	0.58	0.47	2.20	3.01	2.20	0.47	0.58	0.76	0.58
150.0	0.35	0.21	0.27	1.42	2.02	1.42	0.27	0.21	0.35	0.21
152.5	0.06	0.03	0.17	0.85	1.28	0.85	0.17	0.03	0.06	0.03
155.0	0.00	0.01	0.11	0.43	0.73	0.43	0.11	0.01	0.00	0.01
157.5	0.00	0.04	0.08	0.28	0.45	0.28	0.08	0.04	0.00	0.04
160.0	0.01	0.06	0.08	0.16	0.28	0.16	0.08	0.06	0.01	0.06
162.5	0.04	0.06	0.09	0.10	0.15	0.10	0.09	0.06	0.04	0.06
165.0	0.06	0.07	0.07	0.08	0.06	0.08	0.07	0.07	0.06	0.07
167.5	0.02	0.01	0.00	0.05	0.03	0.05	0.00	0.01	0.02	0.01
170.0	0.01	0.00	0.02	0.04	0.03	0.04	0.02	0.00	0.01	0.00
172.5	0.10	0.08	0.06	0.07	0.08	0.07	0.06	0.08	0.10	0.08
175.0	0.15	0.16	0.11	0.10	0.09	0.10	0.11	0.16	0.15	0.16
177.5	0.21	0.21	0.10	0.11	0.12	0.11	0.10	0.21	0.21	0.21
180.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

**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	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05	3173.05
2.5	3170.53	3166.59	3166.19	3166.59	3170.53	3165.76	3166.29
5.0	3162.99	3166.48	3161.61	3166.48	3162.99	3155.02	3161.94
7.5	3158.63	3166.91	3156.91	3166.91	3158.63	3143.58	3148.30
10.0	3139.89	3150.45	3145.09	3150.45	3139.89	3127.59	3131.09
12.5	3119.62	3127.40	3135.31	3127.40	3119.62	3108.28	3103.40
15.0	3093.88	3099.72	3102.93	3099.72	3093.88	3085.60	3074.80
17.5	3062.07	3058.98	3063.43	3058.98	3062.07	3054.23	3039.60
20.0	3018.00	3017.26	3019.48	3017.26	3018.00	3016.51	3002.58
22.5	2967.73	2965.70	2968.69	2965.70	2967.73	2966.86	2953.89
25.0	2920.35	2917.14	2911.78	2917.14	2920.35	2916.10	2904.36
27.5	2855.83	2854.86	2849.63	2854.86	2855.83	2856.67	2846.72
30.0	2792.97	2788.39	2784.78	2788.39	2792.97	2795.01	2781.51
32.5	2723.51	2711.81	2716.06	2711.81	2723.51	2725.29	2716.01
35.0	2640.58	2633.54	2648.73	2633.54	2640.58	2647.27	2627.53
37.5	2549.32	2572.98	2608.80	2572.98	2549.32	2551.23	2530.40
40.0	2453.24	2528.82	2508.68	2528.82	2453.24	2453.16	2445.07
42.5	2368.11	2397.78	2391.89	2397.78	2368.11	2356.17	2334.90
45.0	2314.42	2294.07	2251.94	2294.07	2314.42	2237.97	2225.03
47.5	2179.69	2138.44	2172.76	2138.44	2179.69	2118.13	2106.97
50.0	2030.66	2061.47	2086.71	2061.47	2030.66	1992.06	1980.20
52.5	1916.16	1954.12	1983.59	1954.12	1916.16	1859.90	1842.64
55.0	1737.77	1817.37	1011.32	1817.37	1737.77	1738.14	1708.10
57.5	1634.72	850.44	870.18	850.44	1634.72	1577.38	1561.30
60.0	1485.74	797.40	925.81	797.40	1485.74	1433.74	1412.33
62.5	1217.78	820.34	1343.25	820.34	1217.78	1273.68	1260.70
65.0	607.80	1269.39	1343.88	1269.39	607.80	1116.24	1100.40
67.5	550.98	1157.66	1133.39	1157.66	550.98	965.83	943.94
70.0	524.80	1045.39	996.62	1045.39	524.80	799.33	784.78
72.5	794.98	813.33	888.95	813.33	794.98	673.37	634.54
75.0	731.84	777.63	693.58	777.63	731.84	460.12	490.64
77.5	581.17	533.09	467.31	533.09	581.17	254.02	360.24
80.0	404.39	391.69	417.86	391.69	404.39	191.15	250.74

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CANDELA TABULATION - (Cont.)

82.5	349.60	392.61	423.24	392.61	349.60	140.99	165.11
85.0	242.38	350.31	362.08	350.31	242.38	119.57	105.89
87.5	260.87	244.33	246.89	244.33	260.87	151.79	69.64
90.0	167.84	132.03	117.50	132.03	167.84	107.62	43.94
92.5	72.42	50.32	51.38	50.32	72.42	76.31	36.12
95.0	32.59	34.60	40.98	34.60	32.59	48.86	42.30
97.5	28.12	41.47	46.60	41.47	28.12	27.13	52.35
100.0	35.37	48.26	50.71	48.26	35.37	26.29	56.07
102.5	25.64	30.76	34.77	30.76	25.64	27.27	54.29
105.0	20.42	21.92	22.13	21.92	20.42	29.73	49.88
107.5	18.20	18.79	18.81	18.79	18.20	30.19	44.36
110.0	16.47	16.49	17.89	16.49	16.47	28.44	38.62
112.5	15.56	14.38	15.41	14.38	15.56	25.35	33.19
115.0	14.69	12.99	13.74	12.99	14.69	22.34	28.31
117.5	13.93	11.72	12.33	11.72	13.93	20.49	24.06
120.0	12.99	10.46	11.14	10.46	12.99	20.57	20.48
122.5	13.31	9.62	9.91	9.62	13.31	18.50	17.18
125.0	19.77	9.09	9.18	9.09	19.77	13.25	14.18
127.5	51.42	10.70	9.37	10.70	51.42	10.07	11.49
130.0	35.01	23.61	14.54	23.61	35.01	7.93	9.25
132.5	12.71	69.97	53.16	69.97	12.71	6.46	7.34
135.0	7.91	50.24	57.92	50.24	7.91	4.94	5.64
137.5	5.02	15.38	40.17	15.38	5.02	3.69	4.22
140.0	3.05	8.49	13.28	8.49	3.05	2.63	3.04
142.5	1.78	5.29	7.47	5.29	1.78	1.76	2.09
145.0	0.97	3.39	4.64	3.39	0.97	1.09	1.33
147.5	0.47	2.20	3.01	2.20	0.47	0.58	0.76
150.0	0.27	1.42	2.02	1.42	0.27	0.21	0.35
152.5	0.17	0.85	1.28	0.85	0.17	0.03	0.06
155.0	0.11	0.43	0.73	0.43	0.11	0.01	0.00
157.5	0.08	0.28	0.45	0.28	0.08	0.04	0.00
160.0	0.08	0.16	0.28	0.16	0.08	0.06	0.01
162.5	0.09	0.10	0.15	0.10	0.09	0.06	0.04
165.0	0.07	0.08	0.06	0.08	0.07	0.07	0.06
167.5	0.00	0.05	0.03	0.05	0.00	0.01	0.02
170.0	0.02	0.04	0.03	0.04	0.02	0.00	0.01
172.5	0.06	0.07	0.08	0.07	0.06	0.08	0.10
175.0	0.11	0.10	0.09	0.10	0.11	0.16	0.15
177.5	0.10	0.11	0.12	0.11	0.10	0.21	0.21
180.0	0.14	0.14	0.14	0.14	0.14	0.14	0.14

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1174.25	N.A.	12.40
0-30	2517.85	N.A.	26.70
0-40	4171.48	N.A.	44.20
0-60	7371.00	N.A.	78.10
0-80	9036.96	N.A.	95.70
0-90	9298.82	N.A.	98.50
10-90	8997.62	N.A.	95.30
20-40	2997.23	N.A.	31.80
20-50	4742.78	N.A.	50.20
40-70	4227.65	N.A.	44.80
60-80	1665.96	N.A.	17.70
70-80	637.83	N.A.	6.80
80-90	261.86	N.A.	2.80
90-110	90.15	N.A.	1.00
90-120	108.17	N.A.	1.10
90-130	122.71	N.A.	1.30
90-150	139.63	N.A.	1.50
90-180	139.81	N.A.	1.50
110-180	49.65	N.A.	0.50
0-180	9438.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	301.20
10-20	873.05
20-30	1343.6
30-40	1653.63
40-50	1745.55
50-60	1453.97
60-70	1028.14
70-80	637.83
80-90	261.86
90-100	59.57
100-110	30.58
110-120	18.02
120-130	14.54
130-140	15.30
140-150	1.62
150-160	0.15
160-170	0.02
170-180	0.01

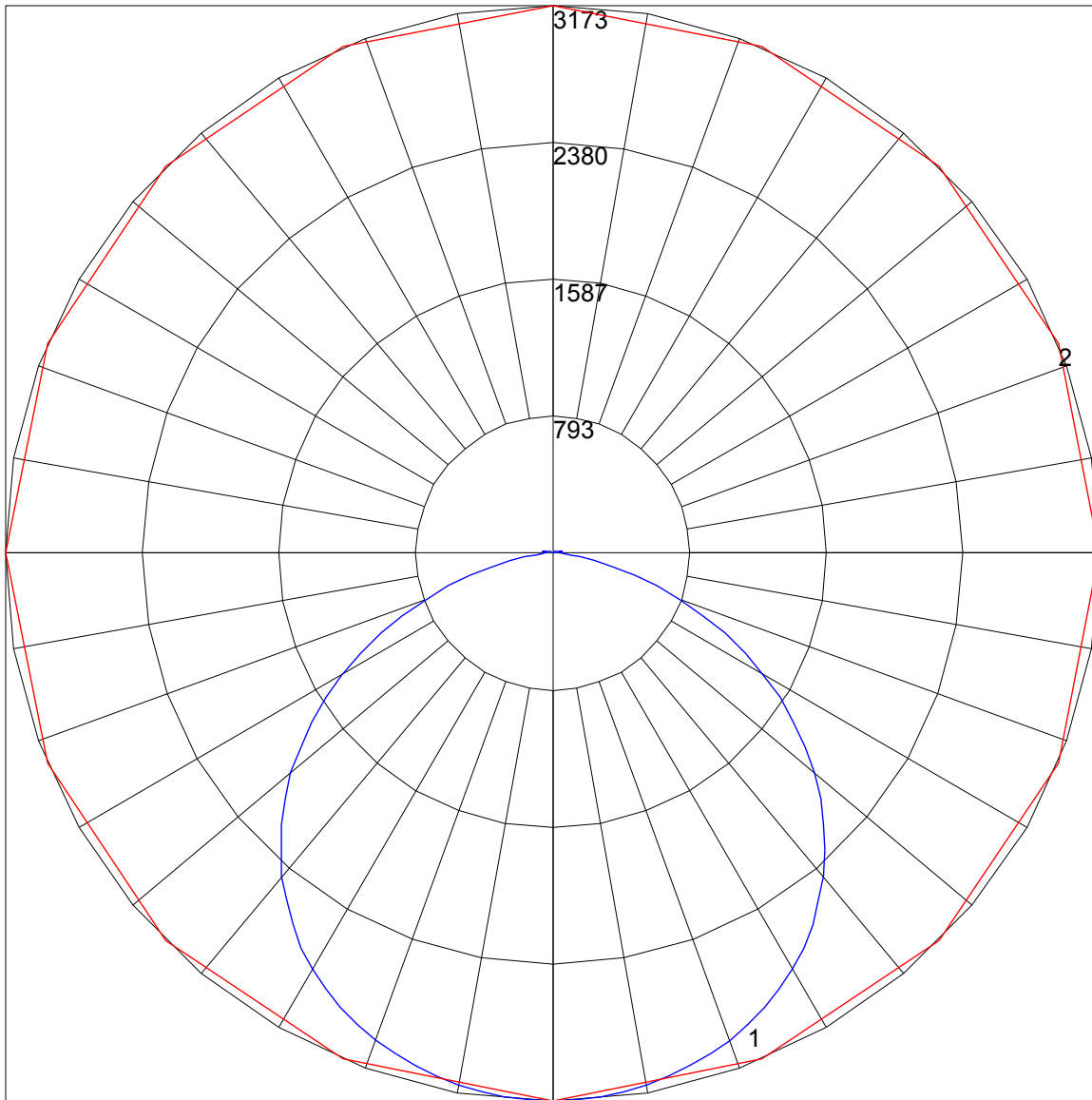
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	71	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	58
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3173.05 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.)