

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

IESNA:LM-63-2002

[TEST] FO33965.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/23/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-W-LCP

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER WIDE OPTICS 10.5K RESISTOR DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 9206 LMS

[TESTDATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	75.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.96
Spacing Criterion (90-270)	2.22
Spacing Criterion (Diagonal)	1.94
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	6630	6326	6806
55	4979	4975	2830
65	1144	656	2648
75	631	620	489
85	350	386	533

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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	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77
2.5	1970.86	1970.59	1971.48	1968.14	1963.29	1968.14	1971.48	1970.59	1970.86	1970.59
5.0	2046.35	2036.42	2023.41	2002.92	1990.09	2002.92	2023.41	2036.42	2046.35	2036.42
7.5	2157.79	2137.80	2103.75	2057.07	2037.56	2057.07	2103.75	2137.80	2157.79	2137.80
10.0	2287.78	2264.54	2204.96	2131.68	2099.46	2131.68	2204.96	2264.54	2287.78	2264.54
12.5	2436.76	2409.73	2326.93	2223.32	2185.83	2223.32	2326.93	2409.73	2436.76	2409.73
15.0	2612.32	2583.47	2468.28	2337.34	2287.28	2337.34	2468.28	2583.47	2612.32	2583.47
17.5	2800.83	2773.03	2635.78	2474.45	2417.47	2474.45	2635.78	2773.03	2800.83	2773.03
20.0	2986.88	2956.07	2813.36	2637.33	2583.47	2637.33	2813.36	2956.07	2986.88	2956.07
22.5	3136.91	3107.07	2975.83	2816.45	2770.28	2816.45	2975.83	3107.07	3136.91	3107.07
25.0	3207.81	3186.24	3105.51	3008.26	2980.22	3008.26	3105.51	3186.24	3207.81	3186.24
27.5	3166.89	3164.71	3153.76	3165.28	3154.85	3165.28	3153.76	3164.71	3166.89	3164.71
30.0	3066.22	3076.78	3138.13	3235.56	3297.70	3235.56	3138.13	3076.78	3066.22	3076.78
32.5	2978.87	3004.39	3090.31	3241.79	3348.36	3241.79	3090.31	3004.39	2978.87	3004.39
35.0	2916.36	2964.97	3073.38	3239.72	3406.40	3239.72	3073.38	2964.97	2916.36	2964.97
37.5	2886.61	2943.24	3074.55	3333.96	3457.78	3333.96	3074.55	2943.24	2886.61	2943.24
40.0	2849.79	2910.05	3083.74	3396.28	3493.26	3396.28	3083.74	2910.05	2849.79	2910.05
42.5	2769.14	2866.48	3091.76	3383.54	3471.71	3383.54	3091.76	2866.48	2769.14	2866.48
45.0	2651.83	2789.66	3083.71	3329.05	3398.39	3329.05	3083.71	2789.66	2651.83	2789.66
47.5	2450.32	2681.16	2971.00	3167.06	3289.94	3167.06	2971.00	2681.16	2450.32	2681.16
50.0	2188.06	2528.90	2803.45	3002.44	3112.04	3002.44	2803.45	2528.90	2188.06	2528.90
52.5	1927.10	2312.31	2562.88	2718.25	2480.36	2718.25	2562.88	2312.31	1927.10	2312.31
55.0	1687.62	2029.42	2190.52	2020.33	1284.81	2020.33	2190.52	2029.42	1687.62	2029.42
57.5	1380.84	1691.25	1777.93	777.75	771.57	777.75	1777.93	1691.25	1380.84	1691.25
60.0	935.06	1306.03	1283.39	534.03	781.52	534.03	1283.39	1306.03	935.06	1306.03
62.5	510.95	850.49	502.60	566.68	1039.85	566.68	502.60	850.49	510.95	850.49
65.0	306.27	470.84	249.16	929.01	1045.86	929.01	249.16	470.84	306.27	470.84
67.5	245.35	289.19	207.93	699.97	591.32	699.97	207.93	289.19	245.35	289.19
70.0	210.75	218.40	212.31	385.07	382.01	385.07	212.31	218.40	210.75	218.40
72.5	153.60	174.21	261.55	234.20	225.20	234.20	261.55	174.21	153.60	174.21
75.0	118.70	116.17	190.72	167.99	158.45	167.99	190.72	116.17	118.70	116.17
77.5	95.23	79.21	144.90	118.43	120.38	118.43	144.90	79.21	95.23	79.21
80.0	72.80	63.07	108.63	108.78	118.19	108.78	108.63	63.07	72.80	63.07
82.5	52.33	53.58	95.17	115.58	126.18	115.58	95.17	53.58	52.33	53.58
85.0	36.00	47.16	87.39	124.90	129.40	124.90	87.39	47.16	36.00	47.16
87.5	24.95	44.66	93.68	117.76	121.41	117.76	93.68	44.66	24.95	44.66
90.0	15.74	35.30	74.86	86.53	85.02	86.53	74.86	35.30	15.74	35.30
92.5	12.69	30.62	53.32	49.70	48.97	49.70	53.32	30.62	12.69	30.62
95.0	14.38	24.77	20.73	24.16	31.79	24.16	20.73	24.77	14.38	24.77
97.5	16.61	11.33	11.47	32.64	45.89	32.64	11.47	11.33	16.61	11.33
100.0	16.44	8.91	12.10	37.45	45.89	37.45	12.10	8.91	16.44	8.91
102.5	14.80	9.11	9.91	20.29	28.66	20.29	9.91	9.11	14.80	9.11
105.0	13.03	9.52	8.74	12.83	15.85	12.83	8.74	9.52	13.03	9.52
107.5	11.66	9.60	8.18	11.41	13.42	11.41	8.18	9.60	11.66	9.60
110.0	10.54	9.38	7.71	10.30	12.34	10.30	7.71	9.38	10.54	9.38
112.5	9.75	9.40	7.30	9.33	11.26	9.33	7.30	9.40	9.75	9.40
115.0	9.53	9.71	7.04	8.44	10.15	8.44	7.04	9.71	9.53	9.71
117.5	9.83	10.26	6.98	7.65	9.26	7.65	6.98	10.26	9.83	10.26
120.0	10.14	10.83	6.94	6.95	8.33	6.95	6.94	10.83	10.14	10.83
122.5	10.03	10.31	7.14	6.42	7.31	6.42	7.14	10.31	10.03	10.31
125.0	9.37	8.92	8.62	6.08	6.68	6.08	8.62	8.92	9.37	8.92
127.5	8.31	7.43	12.13	6.46	6.61	6.46	12.13	7.43	8.31	7.43
130.0	7.14	6.26	10.40	8.59	7.52	8.59	10.40	6.26	7.14	6.26
132.5	5.91	5.35	6.77	14.41	11.90	14.41	6.77	5.35	5.91	5.35

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CANDELA TABULATION - (Cont.)

135.0	4.72	4.28	4.83	11.38	15.04	11.38	4.83	4.28	4.72	4.28
137.5	3.64	3.31	3.58	7.20	9.84	7.20	3.58	3.31	3.64	3.31
140.0	2.68	2.45	2.59	5.03	6.71	5.03	2.59	2.45	2.68	2.45
142.5	1.89	1.74	1.76	3.84	4.83	3.84	1.76	1.74	1.89	1.74
145.0	1.26	1.15	1.13	2.98	3.77	2.98	1.13	1.15	1.26	1.15
147.5	0.80	0.71	0.73	2.25	2.87	2.25	0.73	0.71	0.80	0.71
150.0	0.48	0.42	0.53	1.57	2.16	1.57	0.53	0.42	0.48	0.42
152.5	0.24	0.25	0.43	1.03	1.49	1.03	0.43	0.25	0.24	0.25
155.0	0.17	0.22	0.35	0.62	0.94	0.62	0.35	0.22	0.17	0.22
157.5	0.16	0.20	0.29	0.51	0.68	0.51	0.29	0.20	0.16	0.20
160.0	0.16	0.20	0.23	0.39	0.54	0.39	0.23	0.20	0.16	0.20
162.5	0.16	0.15	0.20	0.28	0.37	0.28	0.20	0.15	0.16	0.15
165.0	0.13	0.11	0.14	0.19	0.23	0.19	0.14	0.11	0.13	0.11
167.5	0.06	0.03	0.06	0.11	0.14	0.11	0.06	0.03	0.06	0.03
170.0	0.04	0.00	0.00	0.04	0.07	0.04	0.00	0.00	0.04	0.00
172.5	0.09	0.04	0.01	0.04	0.08	0.04	0.01	0.04	0.09	0.04
175.0	0.11	0.10	0.04	0.05	0.06	0.05	0.04	0.10	0.11	0.10
177.5	0.15	0.14	0.01	0.03	0.05	0.03	0.01	0.14	0.15	0.14
180.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

**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	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77	1953.77
2.5	1971.48	1968.14	1963.29	1968.14	1971.48	1970.59	1970.86
5.0	2023.41	2002.92	1990.09	2002.92	2023.41	2036.42	2046.35
7.5	2103.75	2057.07	2037.56	2057.07	2103.75	2137.80	2157.79
10.0	2204.96	2131.68	2099.46	2131.68	2204.96	2264.54	2287.78
12.5	2326.93	2223.32	2185.83	2223.32	2326.93	2409.73	2436.76
15.0	2468.28	2337.34	2287.28	2337.34	2468.28	2583.47	2612.32
17.5	2635.78	2474.45	2417.47	2474.45	2635.78	2773.03	2800.83
20.0	2813.36	2637.33	2583.47	2637.33	2813.36	2956.07	2986.88
22.5	2975.83	2816.45	2770.28	2816.45	2975.83	3107.07	3136.91
25.0	3105.51	3008.26	2980.22	3008.26	3105.51	3186.24	3207.81
27.5	3153.76	3165.28	3154.85	3165.28	3153.76	3164.71	3166.89
30.0	3138.13	3235.56	3297.70	3235.56	3138.13	3076.78	3066.22
32.5	3090.31	3241.79	3348.36	3241.79	3090.31	3004.39	2978.87
35.0	3073.38	3239.72	3406.40	3239.72	3073.38	2964.97	2916.36
37.5	3074.55	3333.96	3457.78	3333.96	3074.55	2943.24	2886.61
40.0	3083.74	3396.28	3493.26	3396.28	3083.74	2910.05	2849.79
42.5	3091.76	3383.54	3471.71	3383.54	3091.76	2866.48	2769.14
45.0	3083.71	3329.05	3398.39	3329.05	3083.71	2789.66	2651.83
47.5	2971.00	3167.06	3289.94	3167.06	2971.00	2681.16	2450.32
50.0	2803.45	3002.44	3112.04	3002.44	2803.45	2528.90	2188.06
52.5	2562.88	2718.25	2480.36	2718.25	2562.88	2312.31	1927.10
55.0	2190.52	2020.33	1284.81	2020.33	2190.52	2029.42	1687.62
57.5	1777.93	777.75	771.57	777.75	1777.93	1691.25	1380.84
60.0	1283.39	534.03	781.52	534.03	1283.39	1306.03	935.06
62.5	502.60	566.68	1039.85	566.68	502.60	850.49	510.95
65.0	249.16	929.01	1045.86	929.01	249.16	470.84	306.27
67.5	207.93	699.97	591.32	699.97	207.93	289.19	245.35
70.0	212.31	385.07	382.01	385.07	212.31	218.40	210.75
72.5	261.55	234.20	225.20	234.20	261.55	174.21	153.60
75.0	190.72	167.99	158.45	167.99	190.72	116.17	118.70
77.5	144.90	118.43	120.38	118.43	144.90	79.21	95.23
80.0	108.63	108.78	118.19	108.78	108.63	63.07	72.80

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CANDELA TABULATION - (Cont.)

82.5	95.17	115.58	126.18	115.58	95.17	53.58	52.33
85.0	87.39	124.90	129.40	124.90	87.39	47.16	36.00
87.5	93.68	117.76	121.41	117.76	93.68	44.66	24.95
90.0	74.86	86.53	85.02	86.53	74.86	35.30	15.74
92.5	53.32	49.70	48.97	49.70	53.32	30.62	12.69
95.0	20.73	24.16	31.79	24.16	20.73	24.77	14.38
97.5	11.47	32.64	45.89	32.64	11.47	11.33	16.61
100.0	12.10	37.45	45.89	37.45	12.10	8.91	16.44
102.5	9.91	20.29	28.66	20.29	9.91	9.11	14.80
105.0	8.74	12.83	15.85	12.83	8.74	9.52	13.03
107.5	8.18	11.41	13.42	11.41	8.18	9.60	11.66
110.0	7.71	10.30	12.34	10.30	7.71	9.38	10.54
112.5	7.30	9.33	11.26	9.33	7.30	9.40	9.75
115.0	7.04	8.44	10.15	8.44	7.04	9.71	9.53
117.5	6.98	7.65	9.26	7.65	6.98	10.26	9.83
120.0	6.94	6.95	8.33	6.95	6.94	10.83	10.14
122.5	7.14	6.42	7.31	6.42	7.14	10.31	10.03
125.0	8.62	6.08	6.68	6.08	8.62	8.92	9.37
127.5	12.13	6.46	6.61	6.46	12.13	7.43	8.31
130.0	10.40	8.59	7.52	8.59	10.40	6.26	7.14
132.5	6.77	14.41	11.90	14.41	6.77	5.35	5.91
135.0	4.83	11.38	15.04	11.38	4.83	4.28	4.72
137.5	3.58	7.20	9.84	7.20	3.58	3.31	3.64
140.0	2.59	5.03	6.71	5.03	2.59	2.45	2.68
142.5	1.76	3.84	4.83	3.84	1.76	1.74	1.89
145.0	1.13	2.98	3.77	2.98	1.13	1.15	1.26
147.5	0.73	2.25	2.87	2.25	0.73	0.71	0.80
150.0	0.53	1.57	2.16	1.57	0.53	0.42	0.48
152.5	0.43	1.03	1.49	1.03	0.43	0.25	0.24
155.0	0.35	0.62	0.94	0.62	0.35	0.22	0.17
157.5	0.29	0.51	0.68	0.51	0.29	0.20	0.16
160.0	0.23	0.39	0.54	0.39	0.23	0.20	0.16
162.5	0.20	0.28	0.37	0.28	0.20	0.15	0.16
165.0	0.14	0.19	0.23	0.19	0.14	0.11	0.13
167.5	0.06	0.11	0.14	0.11	0.06	0.03	0.06
170.0	0.00	0.04	0.07	0.04	0.00	0.00	0.04
172.5	0.01	0.04	0.08	0.04	0.01	0.04	0.09
175.0	0.04	0.05	0.06	0.05	0.04	0.10	0.11
177.5	0.01	0.03	0.05	0.03	0.01	0.14	0.15
180.0	0.07	0.07	0.07	0.07	0.07	0.07	0.07

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	908.80	N.A.	9.90
0-30	2325.73	N.A.	25.30
0-40	4291.15	N.A.	46.60
0-60	8301.77	N.A.	90.20
0-80	9042.95	N.A.	98.20
0-90	9134.07	N.A.	99.20
10-90	8935.48	N.A.	97.10
20-40	3382.35	N.A.	36.70
20-50	5708.95	N.A.	62.00
40-70	4576.21	N.A.	49.70
60-80	741.19	N.A.	8.10
70-80	175.60	N.A.	1.90
80-90	91.11	N.A.	1.00
90-110	49.07	N.A.	0.50
90-120	57.91	N.A.	0.60
90-130	65.26	N.A.	0.70
90-150	71.99	N.A.	0.80
90-180	72.29	N.A.	0.80
110-180	23.22	N.A.	0.30
0-180	9206.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.58
10-20	710.22
20-30	1416.93
30-40	1965.42
40-50	2326.6
50-60	1684.03
60-70	565.58
70-80	175.60
80-90	91.11
90-100	34.98
100-110	14.10
110-120	8.84
120-130	7.34
130-140	5.40
140-150	1.34
150-160	0.25
160-170	0.05
170-180	0.00

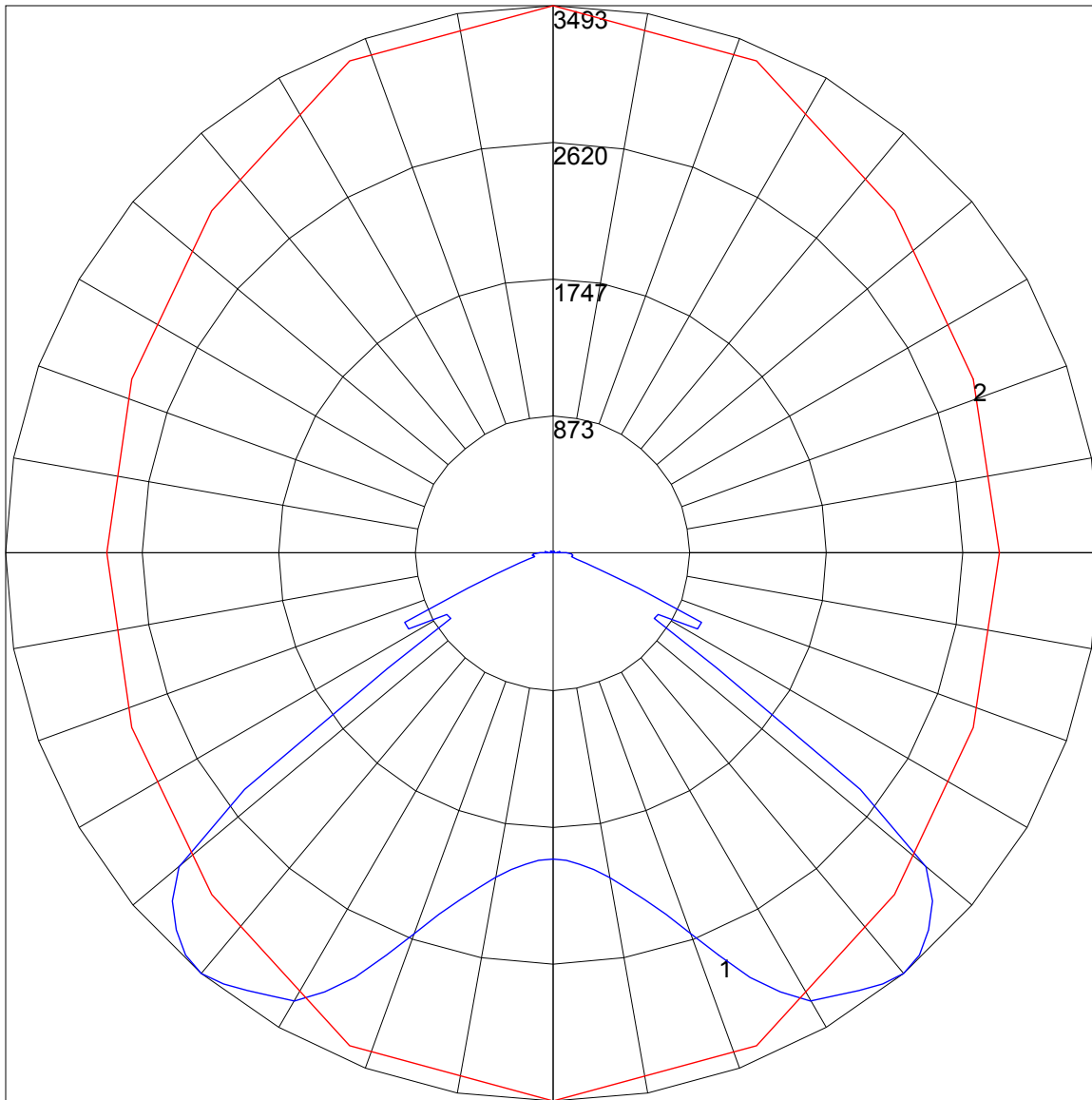
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	71	59	50	44	70	58	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3493.26 Located At Horizontal Angle = 90, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)