

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX08LL40-UNV-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33963.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/23/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-W

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

[LAMP] LED. LUMINAIRE OUTPUT = 9614 LMS

[TESTDATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	75.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.98
Spacing Criterion (90-270)	2.26
Spacing Criterion (Diagonal)	1.96
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	6882	6479	7335
55	5235	5358	3158
65	1213	730	1981
75	695	600	492
85	434	444	584

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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	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98
2.5	2023.63	2025.30	2025.61	2023.15	2020.84	2023.15	2025.61	2025.30	2023.63	2025.30
5.0	2103.11	2092.90	2077.42	2058.88	2047.04	2058.88	2077.42	2092.90	2103.11	2092.90
7.5	2218.50	2197.10	2156.41	2107.85	2088.64	2107.85	2156.41	2197.10	2218.50	2197.10
10.0	2353.81	2325.19	2256.99	2183.24	2154.03	2183.24	2256.99	2325.19	2353.81	2325.19
12.5	2508.68	2472.78	2381.66	2276.73	2245.99	2276.73	2381.66	2472.78	2508.68	2472.78
15.0	2689.88	2645.77	2528.96	2399.87	2358.72	2399.87	2528.96	2645.77	2689.88	2645.77
17.5	2883.95	2835.28	2702.23	2539.58	2492.70	2539.58	2702.23	2835.28	2883.95	2835.28
20.0	3075.31	3021.88	2886.76	2704.38	2647.78	2704.38	2886.76	3021.88	3075.31	3021.88
22.5	3230.13	3184.04	3055.84	2902.57	2856.79	2902.57	3055.84	3184.04	3230.13	3184.04
25.0	3296.30	3272.97	3188.91	3099.31	3074.99	3099.31	3188.91	3272.97	3296.30	3272.97
27.5	3252.68	3257.20	3250.28	3258.11	3245.44	3258.11	3250.28	3257.20	3252.68	3257.20
30.0	3147.01	3169.32	3236.22	3347.45	3398.88	3347.45	3236.22	3169.32	3147.01	3169.32
32.5	3054.86	3098.44	3193.19	3366.41	3455.44	3366.41	3193.19	3098.44	3054.86	3098.44
35.0	3008.74	3060.52	3187.77	3368.36	3469.68	3368.36	3187.77	3060.52	3008.74	3060.52
37.5	2975.68	3043.47	3195.29	3398.71	3504.75	3398.71	3195.29	3043.47	2975.68	3043.47
40.0	2943.20	3015.36	3209.17	3443.49	3546.48	3443.49	3209.17	3015.36	2943.20	3015.36
42.5	2870.70	2972.72	3202.82	3467.58	3613.44	3467.58	3202.82	2972.72	2870.70	2972.72
45.0	2752.93	2909.36	3158.37	3515.71	3662.12	3515.71	3158.37	2909.36	2752.93	2909.36
47.5	2559.16	2813.51	3070.55	3451.42	3511.26	3451.42	3070.55	2813.51	2559.16	2813.51
50.0	2291.61	2671.02	2939.61	3218.66	3236.82	3218.66	2939.61	2671.02	2291.61	2671.02
52.5	2026.59	2464.60	2752.13	2793.32	2331.26	2793.32	2752.13	2464.60	2026.59	2464.60
55.0	1774.61	2176.07	2359.17	1734.58	1433.60	1734.58	2359.17	2176.07	1774.61	2176.07
57.5	1459.30	1833.59	1878.96	840.90	841.32	840.90	1878.96	1833.59	1459.30	1833.59
60.0	1001.22	1407.89	1318.03	605.79	1214.71	605.79	1318.03	1407.89	1001.22	1407.89
62.5	551.02	933.29	481.92	1108.28	1346.87	1108.28	481.92	933.29	551.02	933.29
65.0	324.60	539.67	277.31	933.89	782.28	933.89	277.31	539.67	324.60	539.67
67.5	258.17	324.48	250.27	576.65	535.35	576.65	250.27	324.48	258.17	324.48
70.0	224.16	240.68	365.69	323.70	310.43	323.70	365.69	240.68	224.16	240.68
72.5	166.89	185.88	247.54	225.17	213.29	225.17	247.54	185.88	166.89	185.88
75.0	130.86	123.75	184.72	165.95	159.29	165.95	184.72	123.75	130.86	123.75
77.5	109.02	95.49	152.82	124.36	129.89	124.36	152.82	95.49	109.02	95.49
80.0	86.36	80.50	112.98	120.47	133.15	120.47	112.98	80.50	86.36	80.50
82.5	64.06	75.22	99.50	133.57	140.66	133.57	99.50	75.22	64.06	75.22
85.0	44.72	66.32	100.41	131.32	141.90	131.32	100.41	66.32	44.72	66.32
87.5	29.65	55.52	105.22	131.47	132.07	131.47	105.22	55.52	29.65	55.52
90.0	14.10	44.22	85.95	88.38	86.53	88.38	85.95	44.22	14.10	44.22
92.5	12.39	39.27	48.42	46.89	54.30	46.89	48.42	39.27	12.39	39.27
95.0	16.29	22.90	21.23	37.59	40.46	37.59	21.23	22.90	16.29	22.90
97.5	21.86	14.09	20.02	33.18	38.47	33.18	20.02	14.09	21.86	14.09
100.0	21.09	13.52	18.32	28.70	31.17	28.70	18.32	13.52	21.09	13.52
102.5	18.71	13.24	16.59	23.84	27.77	23.84	16.59	13.24	18.71	13.24
105.0	15.75	13.20	16.30	20.22	21.94	20.22	16.30	13.20	15.75	13.20
107.5	13.32	13.36	15.59	19.86	21.14	19.86	15.59	13.36	13.32	13.36
110.0	11.96	13.21	14.71	19.06	20.71	19.06	14.71	13.21	11.96	13.21
112.5	10.50	12.27	14.01	17.88	19.94	17.88	14.01	12.27	10.50	12.27
115.0	9.49	11.56	13.49	17.30	19.36	17.30	13.49	11.56	9.49	11.56
117.5	9.39	11.84	12.78	16.76	18.61	16.76	12.78	11.84	9.39	11.84
120.0	9.94	12.93	11.88	14.34	16.68	14.34	11.88	12.93	9.94	12.93
122.5	10.20	13.15	11.37	12.10	13.91	12.10	11.37	13.15	10.20	13.15
125.0	9.74	11.21	11.19	10.80	12.01	10.80	11.19	11.21	9.74	11.21
127.5	8.78	9.30	12.23	10.29	11.24	10.29	12.23	9.30	8.78	9.30
130.0	7.63	7.89	15.33	10.29	10.81	10.29	15.33	7.89	7.63	7.89
132.5	6.44	6.65	10.87	11.66	11.40	11.66	10.87	6.65	6.44	6.65

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135.0	5.22	5.17	7.82	16.22	15.48	16.22	7.82	5.17	5.22	5.17
137.5	4.11	4.03	5.85	10.92	14.31	10.92	5.85	4.03	4.11	4.03
140.0	3.12	3.03	4.40	7.99	9.41	7.99	4.40	3.03	3.12	3.03
142.5	2.31	2.21	3.16	6.01	7.10	6.01	3.16	2.21	2.31	2.21
145.0	1.70	1.52	2.16	4.82	5.58	4.82	2.16	1.52	1.70	1.52
147.5	1.19	1.00	1.39	3.78	4.49	3.78	1.39	1.00	1.19	1.00
150.0	0.80	0.58	0.65	2.80	3.48	2.80	0.65	0.58	0.80	0.58
152.5	0.49	0.28	0.38	1.92	2.52	1.92	0.38	0.28	0.49	0.28
155.0	0.23	0.20	0.32	1.05	1.62	1.05	0.32	0.20	0.23	0.20
157.5	0.19	0.20	0.26	0.42	0.85	0.42	0.26	0.20	0.19	0.20
160.0	0.21	0.17	0.20	0.34	0.45	0.34	0.20	0.17	0.21	0.17
162.5	0.19	0.16	0.17	0.28	0.34	0.28	0.17	0.16	0.19	0.16
165.0	0.16	0.13	0.11	0.19	0.23	0.19	0.11	0.13	0.16	0.13
167.5	0.08	0.06	0.04	0.09	0.14	0.09	0.04	0.06	0.08	0.06
170.0	0.06	0.01	0.00	0.05	0.08	0.05	0.00	0.01	0.06	0.01
172.5	0.11	0.07	0.04	0.05	0.09	0.05	0.04	0.07	0.11	0.07
175.0	0.14	0.13	0.08	0.09	0.12	0.09	0.08	0.13	0.14	0.13
177.5	0.21	0.17	0.08	0.12	0.14	0.12	0.08	0.17	0.21	0.17
180.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

**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	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98	2006.98
2.5	2025.61	2023.15	2020.84	2023.15	2025.61	2025.30	2023.63
5.0	2077.42	2058.88	2047.04	2058.88	2077.42	2092.90	2103.11
7.5	2156.41	2107.85	2088.64	2107.85	2156.41	2197.10	2218.50
10.0	2256.99	2183.24	2154.03	2183.24	2256.99	2325.19	2353.81
12.5	2381.66	2276.73	2245.99	2276.73	2381.66	2472.78	2508.68
15.0	2528.96	2399.87	2358.72	2399.87	2528.96	2645.77	2689.88
17.5	2702.23	2539.58	2492.70	2539.58	2702.23	2835.28	2883.95
20.0	2886.76	2704.38	2647.78	2704.38	2886.76	3021.88	3075.31
22.5	3055.84	2902.57	2856.79	2902.57	3055.84	3184.04	3230.13
25.0	3188.91	3099.31	3074.99	3099.31	3188.91	3272.97	3296.30
27.5	3250.28	3258.11	3245.44	3258.11	3250.28	3257.20	3252.68
30.0	3236.22	3347.45	3398.88	3347.45	3236.22	3169.32	3147.01
32.5	3193.19	3366.41	3455.44	3366.41	3193.19	3098.44	3054.86
35.0	3187.77	3368.36	3469.68	3368.36	3187.77	3060.52	3008.74
37.5	3195.29	3398.71	3504.75	3398.71	3195.29	3043.47	2975.68
40.0	3209.17	3443.49	3546.48	3443.49	3209.17	3015.36	2943.20
42.5	3202.82	3467.58	3613.44	3467.58	3202.82	2972.72	2870.70
45.0	3158.37	3515.71	3662.12	3515.71	3158.37	2909.36	2752.93
47.5	3070.55	3451.42	3511.26	3451.42	3070.55	2813.51	2559.16
50.0	2939.61	3218.66	3236.82	3218.66	2939.61	2671.02	2291.61
52.5	2752.13	2793.32	2331.26	2793.32	2752.13	2464.60	2026.59
55.0	2359.17	1734.58	1433.60	1734.58	2359.17	2176.07	1774.61
57.5	1878.96	840.90	841.32	840.90	1878.96	1833.59	1459.30
60.0	1318.03	605.79	1214.71	605.79	1318.03	1407.89	1001.22
62.5	481.92	1108.28	1346.87	1108.28	481.92	933.29	551.02
65.0	277.31	933.89	782.28	933.89	277.31	539.67	324.60
67.5	250.27	576.65	535.35	576.65	250.27	324.48	258.17
70.0	365.69	323.70	310.43	323.70	365.69	240.68	224.16
72.5	247.54	225.17	213.29	225.17	247.54	185.88	166.89
75.0	184.72	165.95	159.29	165.95	184.72	123.75	130.86
77.5	152.82	124.36	129.89	124.36	152.82	95.49	109.02
80.0	112.98	120.47	133.15	120.47	112.98	80.50	86.36

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CANDELA TABULATION - (Cont.)

82.5	99.50	133.57	140.66	133.57	99.50	75.22	64.06
85.0	100.41	131.32	141.90	131.32	100.41	66.32	44.72
87.5	105.22	131.47	132.07	131.47	105.22	55.52	29.65
90.0	85.95	88.38	86.53	88.38	85.95	44.22	14.10
92.5	48.42	46.89	54.30	46.89	48.42	39.27	12.39
95.0	21.23	37.59	40.46	37.59	21.23	22.90	16.29
97.5	20.02	33.18	38.47	33.18	20.02	14.09	21.86
100.0	18.32	28.70	31.17	28.70	18.32	13.52	21.09
102.5	16.59	23.84	27.77	23.84	16.59	13.24	18.71
105.0	16.30	20.22	21.94	20.22	16.30	13.20	15.75
107.5	15.59	19.86	21.14	19.86	15.59	13.36	13.32
110.0	14.71	19.06	20.71	19.06	14.71	13.21	11.96
112.5	14.01	17.88	19.94	17.88	14.01	12.27	10.50
115.0	13.49	17.30	19.36	17.30	13.49	11.56	9.49
117.5	12.78	16.76	18.61	16.76	12.78	11.84	9.39
120.0	11.88	14.34	16.68	14.34	11.88	12.93	9.94
122.5	11.37	12.10	13.91	12.10	11.37	13.15	10.20
125.0	11.19	10.80	12.01	10.80	11.19	11.21	9.74
127.5	12.23	10.29	11.24	10.29	12.23	9.30	8.78
130.0	15.33	10.29	10.81	10.29	15.33	7.89	7.63
132.5	10.87	11.66	11.40	11.66	10.87	6.65	6.44
135.0	7.82	16.22	15.48	16.22	7.82	5.17	5.22
137.5	5.85	10.92	14.31	10.92	5.85	4.03	4.11
140.0	4.40	7.99	9.41	7.99	4.40	3.03	3.12
142.5	3.16	6.01	7.10	6.01	3.16	2.21	2.31
145.0	2.16	4.82	5.58	4.82	2.16	1.52	1.70
147.5	1.39	3.78	4.49	3.78	1.39	1.00	1.19
150.0	0.65	2.80	3.48	2.80	0.65	0.58	0.80
152.5	0.38	1.92	2.52	1.92	0.38	0.28	0.49
155.0	0.32	1.05	1.62	1.05	0.32	0.20	0.23
157.5	0.26	0.42	0.85	0.42	0.26	0.20	0.19
160.0	0.20	0.34	0.45	0.34	0.20	0.17	0.21
162.5	0.17	0.28	0.34	0.28	0.17	0.16	0.19
165.0	0.11	0.19	0.23	0.19	0.11	0.13	0.16
167.5	0.04	0.09	0.14	0.09	0.04	0.06	0.08
170.0	0.00	0.05	0.08	0.05	0.00	0.01	0.06
172.5	0.04	0.05	0.09	0.05	0.04	0.07	0.11
175.0	0.08	0.09	0.12	0.09	0.08	0.13	0.14
177.5	0.08	0.12	0.14	0.12	0.08	0.17	0.21
180.0	0.13	0.13	0.13	0.13	0.13	0.13	0.13

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	932.44	N.A.	9.70
0-30	2390.02	N.A.	24.90
0-40	4416.29	N.A.	45.90
0-60	8613.08	N.A.	89.60
0-80	9419.3	N.A.	98.00
0-90	9523.01	N.A.	99.10
10-90	9319.16	N.A.	96.90
20-40	3483.86	N.A.	36.20
20-50	5915.37	N.A.	61.50
40-70	4820.54	N.A.	50.10
60-80	806.22	N.A.	8.40
70-80	182.47	N.A.	1.90
80-90	103.71	N.A.	1.10
90-110	56.74	N.A.	0.60
90-120	70.99	N.A.	0.70
90-130	81.23	N.A.	0.80
90-150	90.10	N.A.	0.90
90-180	90.51	N.A.	0.90
110-180	33.77	N.A.	0.40
0-180	9613.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.85
10-20	728.59
20-30	1457.58
30-40	2026.28
40-50	2431.51
50-60	1765.28
60-70	623.75
70-80	182.47
80-90	103.71
90-100	37.78
100-110	18.97
110-120	14.25
120-130	10.24
130-140	6.82
140-150	2.05
150-160	0.35
160-170	0.05
170-180	0.01

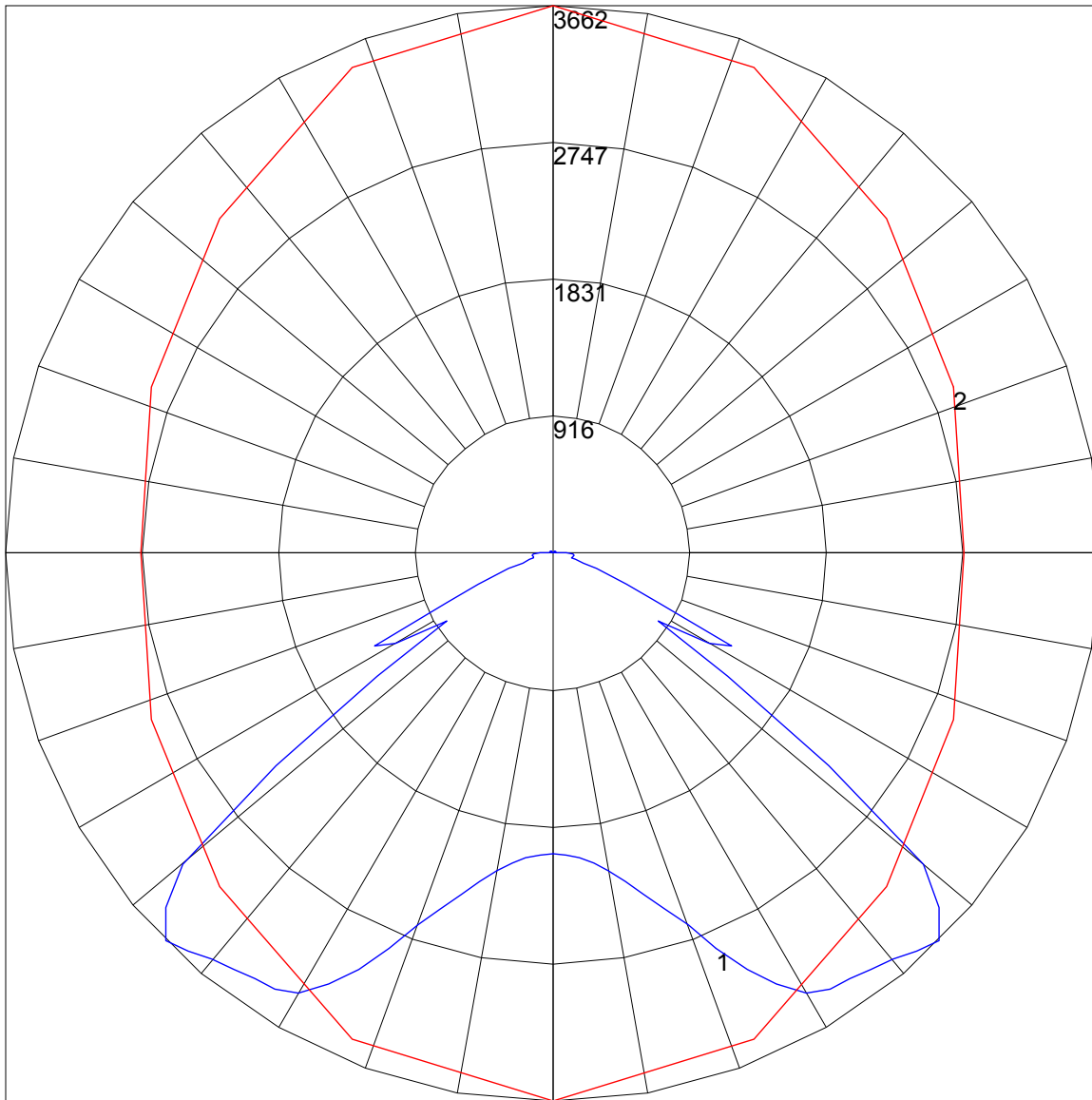
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	52	44	38	64	52	43	38	50	43	37	48	42	37	47	41	37	35
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3662.12 Located At Horizontal Angle = 90, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)