

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

IESNA:LM-63-2002

[TEST] FO33960.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-M-LCP

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

[LAMP] LED. LUMINAIRE OUTPUT = 9242 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9242
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)	1.16
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.24
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	3449	4608	3394
55	1058	794	470
65	926	338	421
75	560	298	314
85	212	261	372

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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	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84
2.5	5270.64	5264.93	5275.24	5279.67	5287.39	5279.67	5275.24	5264.93	5270.64	5264.93
5.0	5314.49	5304.28	5315.41	5328.55	5322.62	5328.55	5315.41	5304.28	5314.49	5304.28
7.5	5385.91	5373.44	5385.74	5391.77	5380.86	5391.77	5385.74	5373.44	5385.91	5373.44
10.0	5464.50	5456.59	5466.98	5466.27	5461.49	5466.27	5466.98	5456.59	5464.50	5456.59
12.5	5531.47	5547.43	5568.19	5558.36	5558.14	5558.36	5568.19	5547.43	5531.47	5547.43
15.0	5563.09	5620.47	5675.59	5669.96	5655.51	5669.96	5675.59	5620.47	5563.09	5620.47
17.5	5515.01	5626.05	5766.43	5799.20	5786.48	5799.20	5766.43	5626.05	5515.01	5626.05
20.0	5358.40	5531.62	5799.94	5776.39	5792.29	5776.39	5799.94	5531.62	5358.40	5531.62
22.5	5075.43	5306.52	5736.52	5730.02	5774.80	5730.02	5736.52	5306.52	5075.43	5306.52
25.0	4740.78	5004.99	5583.87	5788.84	5789.90	5788.84	5583.87	5004.99	4740.78	5004.99
27.5	4380.40	4669.47	5307.85	5690.30	5722.62	5690.30	5307.85	4669.47	4380.40	4669.47
30.0	4068.91	4349.31	4961.36	5339.25	5442.61	5339.25	4961.36	4349.31	4068.91	4349.31
32.5	3792.23	4069.26	4603.01	4858.83	4895.64	4858.83	4603.01	4069.26	3792.23	4069.26
35.0	3492.29	3795.31	4233.39	4369.90	4288.75	4369.90	4233.39	3795.31	3492.29	3795.31
37.5	3122.96	3491.32	3812.53	3826.01	3672.39	3826.01	3812.53	3491.32	3122.96	3491.32
40.0	2636.01	3123.55	3340.44	3193.73	3035.58	3193.73	3340.44	3123.55	2636.01	3123.55
42.5	2043.21	2637.46	2825.50	2536.91	2359.51	2536.91	2825.50	2637.46	2043.21	2637.46
45.0	1379.56	2009.59	2246.64	1842.07	1694.71	1842.07	2246.64	2009.59	1379.56	2009.59
47.5	832.69	1349.99	1631.28	1232.83	1106.21	1232.83	1631.28	1349.99	832.69	1349.99
50.0	497.87	801.33	1051.81	755.64	661.54	755.64	1051.81	801.33	497.87	801.33
52.5	388.22	462.79	611.04	444.26	365.33	444.26	611.04	462.79	388.22	462.79
55.0	358.73	306.20	349.74	253.58	213.17	253.58	349.74	306.20	358.73	306.20
57.5	331.63	249.23	236.99	188.59	185.26	188.59	236.99	249.23	331.63	249.23
60.0	299.36	216.75	190.32	172.20	183.05	172.20	190.32	216.75	299.36	216.75
62.5	270.26	188.50	156.31	168.43	183.41	168.43	156.31	188.50	270.26	188.50
65.0	247.89	159.94	128.52	169.12	166.21	169.12	128.52	159.94	247.89	159.94
67.5	209.76	132.12	114.78	153.97	148.21	153.97	114.78	132.12	209.76	132.12
70.0	203.38	106.18	105.62	136.47	133.73	136.47	105.62	106.18	203.38	106.18
72.5	155.31	82.12	102.40	122.47	121.54	122.47	102.40	82.12	155.31	82.12
75.0	105.39	60.50	91.79	108.44	101.55	108.44	91.79	60.50	105.39	60.50
77.5	74.58	45.46	80.29	82.86	83.45	82.86	80.29	45.46	74.58	45.46
80.0	51.44	35.34	63.50	78.06	85.19	78.06	63.50	35.34	51.44	35.34
82.5	33.83	28.86	59.33	86.09	94.08	86.09	59.33	28.86	33.83	28.86
85.0	21.85	24.43	59.10	90.66	90.41	90.66	59.10	24.43	21.85	24.43
87.5	13.55	21.91	62.43	78.17	79.71	78.17	62.43	21.91	13.55	21.91
90.0	7.56	16.87	47.06	59.14	57.59	59.14	47.06	16.87	7.56	16.87
92.5	5.63	14.18	32.73	30.35	28.20	30.35	32.73	14.18	5.63	14.18
95.0	6.75	11.00	10.06	8.70	9.75	8.70	10.06	11.00	6.75	11.00
97.5	8.74	3.78	3.52	6.02	6.72	6.02	3.52	3.78	8.74	3.78
100.0	9.64	2.55	2.99	4.77	5.34	4.77	2.99	2.55	9.64	2.55
102.5	9.44	2.58	2.65	4.16	4.75	4.16	2.65	2.58	9.44	2.58
105.0	8.67	2.57	2.33	3.91	4.60	3.91	2.33	2.57	8.67	2.57
107.5	7.46	2.46	1.85	3.43	4.32	3.43	1.85	2.46	7.46	2.46
110.0	5.96	2.20	1.41	2.70	3.65	2.70	1.41	2.20	5.96	2.20
112.5	4.59	1.88	1.16	1.88	2.83	1.88	1.16	1.88	4.59	1.88
115.0	3.46	1.62	1.05	1.32	2.07	1.32	1.05	1.62	3.46	1.62
117.5	2.61	1.59	1.03	1.08	1.55	1.08	1.03	1.59	2.61	1.59
120.0	2.06	1.78	1.09	1.11	1.45	1.11	1.09	1.78	2.06	1.78
122.5	1.66	1.76	1.46	1.05	1.43	1.05	1.46	1.76	1.66	1.76
125.0	1.42	1.42	2.84	1.09	1.32	1.09	2.84	1.42	1.42	1.42
127.5	1.27	1.07	5.36	1.70	1.61	1.70	5.36	1.07	1.27	1.07
130.0	1.19	0.92	4.78	3.52	2.54	3.52	4.78	0.92	1.19	0.92
132.5	1.07	0.86	2.85	7.72	5.48	7.72	2.85	0.86	1.07	0.86

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CANDELA TABULATION - (Cont.)

135.0	0.87	0.64	1.67	6.99	8.31	6.99	1.67	0.64	0.87	0.64
137.5	0.63	0.45	0.99	4.15	6.25	4.15	0.99	0.45	0.63	0.45
140.0	0.40	0.26	0.59	2.63	3.95	2.63	0.59	0.26	0.40	0.26
142.5	0.20	0.10	0.31	1.86	2.65	1.86	0.31	0.10	0.20	0.10
145.0	0.09	0.01	0.15	1.43	2.02	1.43	0.15	0.01	0.09	0.01
147.5	0.07	0.00	0.10	1.08	1.57	1.08	0.10	0.00	0.07	0.00
150.0	0.09	0.00	0.12	0.82	1.24	0.82	0.12	0.00	0.09	0.00
152.5	0.17	0.10	0.21	0.65	1.00	0.65	0.21	0.10	0.17	0.10
155.0	0.30	0.27	0.31	0.56	0.91	0.56	0.31	0.27	0.30	0.27
157.5	0.46	0.42	0.43	0.65	0.92	0.65	0.43	0.42	0.46	0.42
160.0	0.65	0.58	0.58	0.75	0.99	0.75	0.58	0.58	0.65	0.58
162.5	0.79	0.73	0.73	0.84	1.03	0.84	0.73	0.73	0.79	0.73
165.0	0.90	0.84	0.80	0.93	1.06	0.93	0.80	0.84	0.90	0.84
167.5	0.90	0.83	0.81	0.97	1.09	0.97	0.81	0.83	0.90	0.83
170.0	0.96	0.89	0.86	1.02	1.12	1.02	0.86	0.89	0.96	0.89
172.5	1.16	1.12	1.03	1.13	1.25	1.13	1.03	1.12	1.16	1.12
175.0	1.31	1.28	1.18	1.23	1.34	1.23	1.18	1.28	1.31	1.28
177.5	1.45	1.42	1.21	1.29	1.38	1.29	1.21	1.42	1.45	1.42
180.0	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33

**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	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84	5266.84
2.5	5275.24	5279.67	5287.39	5279.67	5275.24	5264.93	5270.64
5.0	5315.41	5328.55	5322.62	5328.55	5315.41	5304.28	5314.49
7.5	5385.74	5391.77	5380.86	5391.77	5385.74	5373.44	5385.91
10.0	5466.98	5466.27	5461.49	5466.27	5466.98	5456.59	5464.50
12.5	5568.19	5558.36	5558.14	5558.36	5568.19	5547.43	5531.47
15.0	5675.59	5669.96	5655.51	5669.96	5675.59	5620.47	5563.09
17.5	5766.43	5799.20	5786.48	5799.20	5766.43	5626.05	5515.01
20.0	5799.94	5776.39	5792.29	5776.39	5799.94	5531.62	5358.40
22.5	5736.52	5730.02	5774.80	5730.02	5736.52	5306.52	5075.43
25.0	5583.87	5788.84	5789.90	5788.84	5583.87	5004.99	4740.78
27.5	5307.85	5690.30	5722.62	5690.30	5307.85	4669.47	4380.40
30.0	4961.36	5339.25	5442.61	5339.25	4961.36	4349.31	4068.91
32.5	4603.01	4858.83	4895.64	4858.83	4603.01	4069.26	3792.23
35.0	4233.39	4369.90	4288.75	4369.90	4233.39	3795.31	3492.29
37.5	3812.53	3826.01	3672.39	3826.01	3812.53	3491.32	3122.96
40.0	3340.44	3193.73	3035.58	3193.73	3340.44	3123.55	2636.01
42.5	2825.50	2536.91	2359.51	2536.91	2825.50	2637.46	2043.21
45.0	2246.64	1842.07	1694.71	1842.07	2246.64	2009.59	1379.56
47.5	1631.28	1232.83	1106.21	1232.83	1631.28	1349.99	832.69
50.0	1051.81	755.64	661.54	755.64	1051.81	801.33	497.87
52.5	611.04	444.26	365.33	444.26	611.04	462.79	388.22
55.0	349.74	253.58	213.17	253.58	349.74	306.20	358.73
57.5	236.99	188.59	185.26	188.59	236.99	249.23	331.63
60.0	190.32	172.20	183.05	172.20	190.32	216.75	299.36
62.5	156.31	168.43	183.41	168.43	156.31	188.50	270.26
65.0	128.52	169.12	166.21	169.12	128.52	159.94	247.89
67.5	114.78	153.97	148.21	153.97	114.78	132.12	209.76
70.0	105.62	136.47	133.73	136.47	105.62	106.18	203.38
72.5	102.40	122.47	121.54	122.47	102.40	82.12	155.31
75.0	91.79	108.44	101.55	108.44	91.79	60.50	105.39
77.5	80.29	82.86	83.45	82.86	80.29	45.46	74.58
80.0	63.50	78.06	85.19	78.06	63.50	35.34	51.44

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CANDELA TABULATION - (Cont.)

82.5	59.33	86.09	94.08	86.09	59.33	28.86	33.83
85.0	59.10	90.66	90.41	90.66	59.10	24.43	21.85
87.5	62.43	78.17	79.71	78.17	62.43	21.91	13.55
90.0	47.06	59.14	57.59	59.14	47.06	16.87	7.56
92.5	32.73	30.35	28.20	30.35	32.73	14.18	5.63
95.0	10.06	8.70	9.75	8.70	10.06	11.00	6.75
97.5	3.52	6.02	6.72	6.02	3.52	3.78	8.74
100.0	2.99	4.77	5.34	4.77	2.99	2.55	9.64
102.5	2.65	4.16	4.75	4.16	2.65	2.58	9.44
105.0	2.33	3.91	4.60	3.91	2.33	2.57	8.67
107.5	1.85	3.43	4.32	3.43	1.85	2.46	7.46
110.0	1.41	2.70	3.65	2.70	1.41	2.20	5.96
112.5	1.16	1.88	2.83	1.88	1.16	1.88	4.59
115.0	1.05	1.32	2.07	1.32	1.05	1.62	3.46
117.5	1.03	1.08	1.55	1.08	1.03	1.59	2.61
120.0	1.09	1.11	1.45	1.11	1.09	1.78	2.06
122.5	1.46	1.05	1.43	1.05	1.46	1.76	1.66
125.0	2.84	1.09	1.32	1.09	2.84	1.42	1.42
127.5	5.36	1.70	1.61	1.70	5.36	1.07	1.27
130.0	4.78	3.52	2.54	3.52	4.78	0.92	1.19
132.5	2.85	7.72	5.48	7.72	2.85	0.86	1.07
135.0	1.67	6.99	8.31	6.99	1.67	0.64	0.87
137.5	0.99	4.15	6.25	4.15	0.99	0.45	0.63
140.0	0.59	2.63	3.95	2.63	0.59	0.26	0.40
142.5	0.31	1.86	2.65	1.86	0.31	0.10	0.20
145.0	0.15	1.43	2.02	1.43	0.15	0.01	0.09
147.5	0.10	1.08	1.57	1.08	0.10	0.00	0.07
150.0	0.12	0.82	1.24	0.82	0.12	0.00	0.09
152.5	0.21	0.65	1.00	0.65	0.21	0.10	0.17
155.0	0.31	0.56	0.91	0.56	0.31	0.27	0.30
157.5	0.43	0.65	0.92	0.65	0.43	0.42	0.46
160.0	0.58	0.75	0.99	0.75	0.58	0.58	0.65
162.5	0.73	0.84	1.03	0.84	0.73	0.73	0.79
165.0	0.80	0.93	1.06	0.93	0.80	0.84	0.90
167.5	0.81	0.97	1.09	0.97	0.81	0.83	0.90
170.0	0.86	1.02	1.12	1.02	0.86	0.89	0.96
172.5	1.03	1.13	1.25	1.13	1.03	1.12	1.16
175.0	1.18	1.23	1.34	1.23	1.18	1.28	1.31
177.5	1.21	1.29	1.38	1.29	1.21	1.42	1.45
180.0	1.33	1.33	1.33	1.33	1.33	1.33	1.33

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2108.72	N.A.	22.80
0-30	4574.54	N.A.	49.50
0-40	7091.64	N.A.	76.70
0-60	8893.33	N.A.	96.20
0-80	9154.89	N.A.	99.10
0-90	9214.76	N.A.	99.70
10-90	8702.45	N.A.	94.20
20-40	4982.92	N.A.	53.90
20-50	6451.33	N.A.	69.80
40-70	1965.8	N.A.	21.30
60-80	261.57	N.A.	2.80
70-80	97.46	N.A.	1.10
80-90	59.86	N.A.	0.60
90-110	20.38	N.A.	0.20
90-120	22.22	N.A.	0.20
90-130	23.92	N.A.	0.30
90-150	26.65	N.A.	0.30
90-180	27.22	N.A.	0.30
110-180	6.84	N.A.	0.10
0-180	9241.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	512.31
10-20	1596.41
20-30	2465.82
30-40	2517.1
40-50	1468.41
50-60	333.27
60-70	164.11
70-80	97.46
80-90	59.86
90-100	16.41
100-110	3.97
110-120	1.84
120-130	1.70
130-140	2.25
140-150	0.48
150-160	0.22
160-170	0.24
170-180	0.11

IES INDOOR REPORT

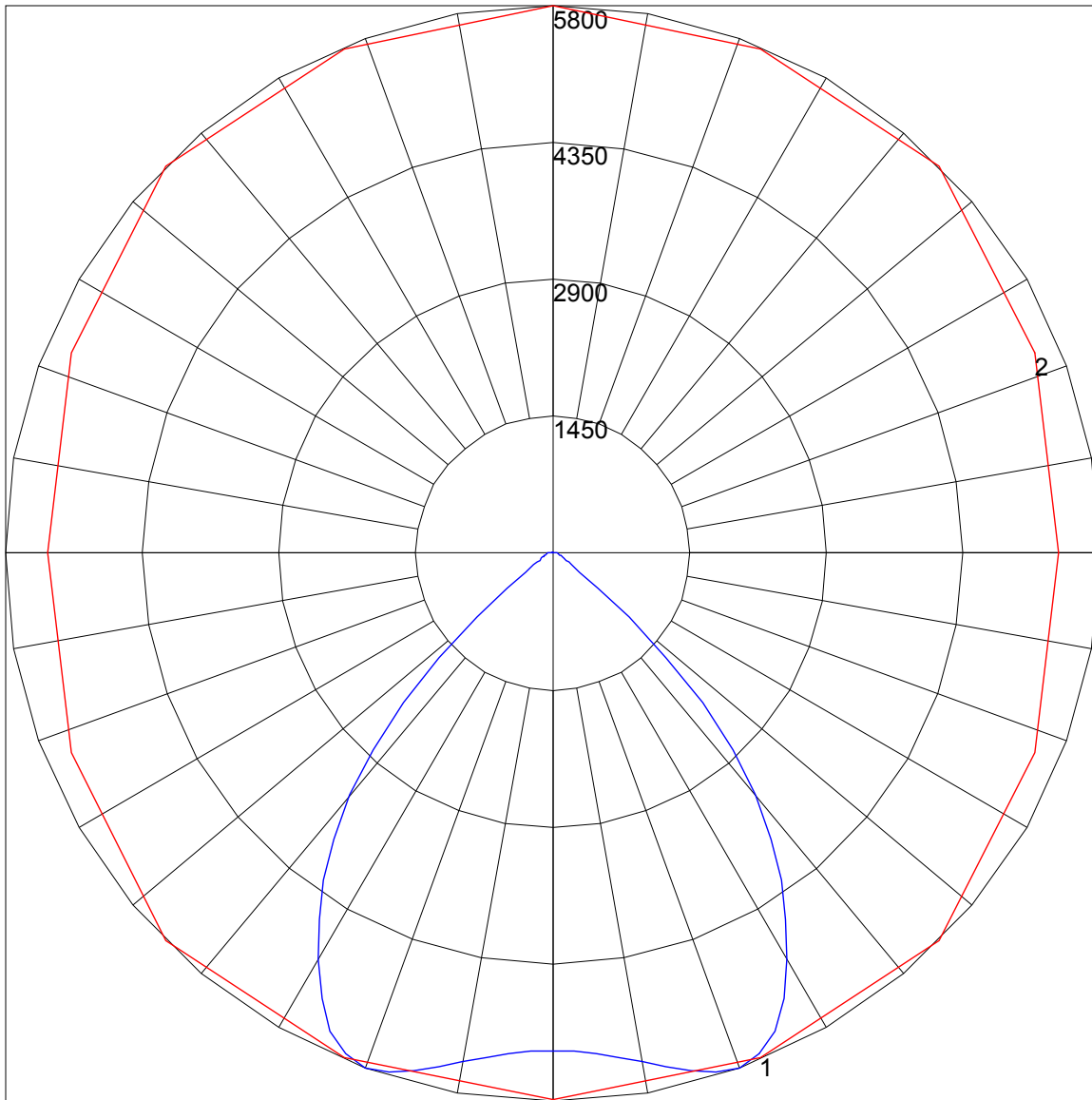
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	86	76	70	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50
8	72	60	53	49	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	54	48	44	53	48	44	53	48	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 5799.94 Located At Horizontal Angle = 45, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)