

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33977.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/24/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-A-LFA

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

[LAMP] LED. LUMINAIRE OUTPUT = 8391 LMS

[TESTDATE] 12/24/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	75.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	1.06
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	5133	3363	2934
55	3909	2495	2219
65	2958	1824	1684
75	2043	1202	1213
85	824	615	807

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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	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44
2.5	4639.87	4639.03	4648.91	4645.08	4642.77	4645.08	4648.91	4639.03	4639.87	4639.03
5.0	4614.08	4603.25	4597.62	4579.13	4566.26	4579.13	4597.62	4603.25	4614.08	4603.25
7.5	4569.56	4545.64	4509.62	4461.99	4445.39	4461.99	4509.62	4545.64	4569.56	4545.64
10.0	4505.03	4467.16	4391.26	4311.20	4281.33	4311.20	4391.26	4467.16	4505.03	4467.16
12.5	4423.57	4367.62	4245.02	4123.32	4084.26	4123.32	4245.02	4367.62	4423.57	4367.62
15.0	4322.44	4249.35	4075.26	3914.66	3859.82	3914.66	4075.26	4249.35	4322.44	4249.35
17.5	4204.95	4107.77	3882.24	3685.36	3624.77	3685.36	3882.24	4107.77	4204.95	4107.77
20.0	4067.70	3944.44	3672.57	3449.59	3385.64	3449.59	3672.57	3944.44	4067.70	3944.44
22.5	3912.46	3762.84	3450.74	3217.05	3148.70	3217.05	3450.74	3762.84	3912.46	3762.84
25.0	3740.48	3566.16	3224.63	2983.43	2912.90	2983.43	3224.63	3566.16	3740.48	3566.16
27.5	3554.20	3357.31	3000.50	2757.60	2687.02	2757.60	3000.50	3357.31	3554.20	3357.31
30.0	3359.72	3140.71	2778.11	2542.90	2472.52	2542.90	2778.11	3140.71	3359.72	3140.71
32.5	3142.35	2920.99	2561.50	2337.48	2275.16	2337.48	2561.50	2920.99	3142.35	2920.99
35.0	2919.60	2697.22	2352.90	2142.14	2090.39	2142.14	2352.90	2697.22	2919.60	2697.22
37.5	2700.33	2475.32	2153.05	1963.70	1914.65	1963.70	2153.05	2475.32	2700.33	2475.32
40.0	2483.06	2261.70	1966.62	1800.45	1752.56	1800.45	1966.62	2261.70	2483.06	2261.70
42.5	2267.69	2059.87	1796.62	1646.97	1603.92	1646.97	1796.62	2059.87	2267.69	2059.87
45.0	2053.20	1870.73	1639.34	1502.48	1464.74	1502.48	1639.34	1870.73	2053.20	1870.73
47.5	1854.02	1691.62	1490.95	1369.12	1337.20	1369.12	1490.95	1691.62	1854.02	1691.62
50.0	1664.46	1524.28	1349.55	1246.96	1219.54	1246.96	1349.55	1524.28	1664.46	1524.28
52.5	1489.78	1371.08	1219.29	1133.54	1109.56	1133.54	1219.29	1371.08	1489.78	1371.08
55.0	1325.18	1229.67	1098.79	1026.46	1007.35	1026.46	1098.79	1229.67	1325.18	1229.67
57.5	1176.52	1098.05	988.57	927.88	913.04	927.88	988.57	1098.05	1176.52	1098.05
60.0	1039.13	975.98	883.95	836.28	826.11	836.28	883.95	975.98	1039.13	975.98
62.5	911.23	861.16	785.58	750.35	743.55	750.35	785.58	861.16	911.23	861.16
65.0	791.69	753.08	692.55	668.96	664.87	668.96	692.55	753.08	791.69	753.08
67.5	678.57	650.57	604.83	589.85	590.35	589.85	604.83	650.57	678.57	650.57
70.0	574.86	553.68	522.39	515.65	519.91	515.65	522.39	553.68	574.86	553.68
72.5	476.25	463.49	444.03	448.05	454.24	448.05	444.03	463.49	476.25	463.49
75.0	384.45	377.84	369.98	383.95	392.63	383.95	369.98	377.84	384.45	377.84
77.5	296.15	296.86	301.09	322.30	334.27	322.30	301.09	296.86	296.15	296.86
80.0	215.19	221.53	238.41	266.17	280.70	266.17	238.41	221.53	215.19	221.53
82.5	143.55	155.09	183.29	218.56	234.87	218.56	183.29	155.09	143.55	155.09
85.0	84.89	101.81	139.20	178.83	196.06	178.83	139.20	101.81	84.89	101.81
87.5	45.23	67.14	109.32	149.28	166.35	149.28	109.32	67.14	45.23	67.14
90.0	30.12	48.03	85.99	124.00	140.46	124.00	85.99	48.03	30.12	48.03
92.5	28.52	40.75	69.93	103.38	118.66	103.38	69.93	40.75	28.52	40.75
95.0	27.50	38.34	61.77	88.94	102.36	88.94	61.77	38.34	27.50	38.34
97.5	26.43	35.95	57.82	80.49	91.49	80.49	57.82	35.95	26.43	35.95
100.0	25.14	33.34	54.50	75.28	84.70	75.28	54.50	33.34	25.14	33.34
102.5	23.54	30.80	51.33	71.08	79.87	71.08	51.33	30.80	23.54	30.80
105.0	21.88	28.23	48.34	67.40	75.86	67.40	48.34	28.23	21.88	28.23
107.5	20.25	25.76	45.25	63.57	72.00	63.57	45.25	25.76	20.25	25.76
110.0	18.51	23.10	42.19	59.91	68.05	59.91	42.19	23.10	18.51	23.10
112.5	16.76	20.49	39.01	56.04	64.07	56.04	39.01	20.49	16.76	20.49
115.0	15.03	17.79	35.78	52.17	59.88	52.17	35.78	17.79	15.03	17.79
117.5	13.37	15.19	32.48	48.32	55.77	48.32	32.48	15.19	13.37	15.19
120.0	11.84	12.72	29.37	44.72	51.87	44.72	29.37	12.72	11.84	12.72
122.5	10.35	10.48	26.13	40.91	47.57	40.91	26.13	10.48	10.35	10.48
125.0	8.86	8.48	22.94	37.01	43.55	37.01	22.94	8.48	8.86	8.48
127.5	7.57	6.57	19.70	33.37	39.75	33.37	19.70	6.57	7.57	6.57
130.0	6.41	5.03	16.59	29.89	35.70	29.89	16.59	5.03	6.41	5.03
132.5	5.40	4.19	13.56	26.19	31.62	26.19	13.56	4.19	5.40	4.19

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CANDELA TABULATION - (Cont.)

135.0	4.40	3.34	10.67	22.65	27.65	22.65	10.67	3.34	4.40	3.34
137.5	3.46	2.59	7.97	19.16	23.71	19.16	7.97	2.59	3.46	2.59
140.0	2.59	1.88	5.61	15.80	19.82	15.80	5.61	1.88	2.59	1.88
142.5	1.83	1.26	3.61	12.51	16.19	12.51	3.61	1.26	1.83	1.26
145.0	1.17	0.73	2.12	9.48	12.65	9.48	2.12	0.73	1.17	0.73
147.5	0.64	0.33	0.96	6.81	9.50	6.81	0.96	0.33	0.64	0.33
150.0	0.29	0.06	0.44	4.39	6.59	4.39	0.44	0.06	0.29	0.06
152.5	0.05	0.09	0.30	2.37	4.16	2.37	0.30	0.09	0.05	0.09
155.0	0.00	0.09	0.26	1.06	2.20	1.06	0.26	0.09	0.00	0.09
157.5	0.07	0.20	0.29	0.54	1.14	0.54	0.29	0.20	0.07	0.20
160.0	0.17	0.22	0.27	0.44	0.58	0.44	0.27	0.22	0.17	0.22
162.5	0.25	0.27	0.37	0.38	0.54	0.38	0.37	0.27	0.25	0.27
165.0	0.25	0.27	0.36	0.38	0.47	0.38	0.36	0.27	0.25	0.27
167.5	0.30	0.23	0.28	0.41	0.45	0.41	0.28	0.23	0.30	0.23
170.0	0.23	0.28	0.32	0.43	0.42	0.43	0.32	0.28	0.23	0.28
172.5	0.37	0.40	0.39	0.45	0.52	0.45	0.39	0.40	0.37	0.40
175.0	0.44	0.49	0.46	0.48	0.57	0.48	0.46	0.49	0.44	0.49
177.5	0.57	0.55	0.44	0.48	0.62	0.48	0.44	0.55	0.57	0.55
180.0	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51

**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	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44	4662.44
2.5	4648.91	4645.08	4642.77	4645.08	4648.91	4639.03	4639.87
5.0	4597.62	4579.13	4566.26	4579.13	4597.62	4603.25	4614.08
7.5	4509.62	4461.99	4445.39	4461.99	4509.62	4545.64	4569.56
10.0	4391.26	4311.20	4281.33	4311.20	4391.26	4467.16	4505.03
12.5	4245.02	4123.32	4084.26	4123.32	4245.02	4367.62	4423.57
15.0	4075.26	3914.66	3859.82	3914.66	4075.26	4249.35	4322.44
17.5	3882.24	3685.36	3624.77	3685.36	3882.24	4107.77	4204.95
20.0	3672.57	3449.59	3385.64	3449.59	3672.57	3944.44	4067.70
22.5	3450.74	3217.05	3148.70	3217.05	3450.74	3762.84	3912.46
25.0	3224.63	2983.43	2912.90	2983.43	3224.63	3566.16	3740.48
27.5	3000.50	2757.60	2687.02	2757.60	3000.50	3357.31	3554.20
30.0	2778.11	2542.90	2472.52	2542.90	2778.11	3140.71	3359.72
32.5	2561.50	2337.48	2275.16	2337.48	2561.50	2920.99	3142.35
35.0	2352.90	2142.14	2090.39	2142.14	2352.90	2697.22	2919.60
37.5	2153.05	1963.70	1914.65	1963.70	2153.05	2475.32	2700.33
40.0	1966.62	1800.45	1752.56	1800.45	1966.62	2261.70	2483.06
42.5	1796.62	1646.97	1603.92	1646.97	1796.62	2059.87	2267.69
45.0	1639.34	1502.48	1464.74	1502.48	1639.34	1870.73	2053.20
47.5	1490.95	1369.12	1337.20	1369.12	1490.95	1691.62	1854.02
50.0	1349.55	1246.96	1219.54	1246.96	1349.55	1524.28	1664.46
52.5	1219.29	1133.54	1109.56	1133.54	1219.29	1371.08	1489.78
55.0	1098.79	1026.46	1007.35	1026.46	1098.79	1229.67	1325.18
57.5	988.57	927.88	913.04	927.88	988.57	1098.05	1176.52
60.0	883.95	836.28	826.11	836.28	883.95	975.98	1039.13
62.5	785.58	750.35	743.55	750.35	785.58	861.16	911.23
65.0	692.55	668.96	664.87	668.96	692.55	753.08	791.69
67.5	604.83	589.85	590.35	589.85	604.83	650.57	678.57
70.0	522.39	515.65	519.91	515.65	522.39	553.68	574.86
72.5	444.03	448.05	454.24	448.05	444.03	463.49	476.25
75.0	369.98	383.95	392.63	383.95	369.98	377.84	384.45
77.5	301.09	322.30	334.27	322.30	301.09	296.86	296.15
80.0	238.41	266.17	280.70	266.17	238.41	221.53	215.19

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CANDELA TABULATION - (Cont.)

82.5	183.29	218.56	234.87	218.56	183.29	155.09	143.55
85.0	139.20	178.83	196.06	178.83	139.20	101.81	84.89
87.5	109.32	149.28	166.35	149.28	109.32	67.14	45.23
90.0	85.99	124.00	140.46	124.00	85.99	48.03	30.12
92.5	69.93	103.38	118.66	103.38	69.93	40.75	28.52
95.0	61.77	88.94	102.36	88.94	61.77	38.34	27.50
97.5	57.82	80.49	91.49	80.49	57.82	35.95	26.43
100.0	54.50	75.28	84.70	75.28	54.50	33.34	25.14
102.5	51.33	71.08	79.87	71.08	51.33	30.80	23.54
105.0	48.34	67.40	75.86	67.40	48.34	28.23	21.88
107.5	45.25	63.57	72.00	63.57	45.25	25.76	20.25
110.0	42.19	59.91	68.05	59.91	42.19	23.10	18.51
112.5	39.01	56.04	64.07	56.04	39.01	20.49	16.76
115.0	35.78	52.17	59.88	52.17	35.78	17.79	15.03
117.5	32.48	48.32	55.77	48.32	32.48	15.19	13.37
120.0	29.37	44.72	51.87	44.72	29.37	12.72	11.84
122.5	26.13	40.91	47.57	40.91	26.13	10.48	10.35
125.0	22.94	37.01	43.55	37.01	22.94	8.48	8.86
127.5	19.70	33.37	39.75	33.37	19.70	6.57	7.57
130.0	16.59	29.89	35.70	29.89	16.59	5.03	6.41
132.5	13.56	26.19	31.62	26.19	13.56	4.19	5.40
135.0	10.67	22.65	27.65	22.65	10.67	3.34	4.40
137.5	7.97	19.16	23.71	19.16	7.97	2.59	3.46
140.0	5.61	15.80	19.82	15.80	5.61	1.88	2.59
142.5	3.61	12.51	16.19	12.51	3.61	1.26	1.83
145.0	2.12	9.48	12.65	9.48	2.12	0.73	1.17
147.5	0.96	6.81	9.50	6.81	0.96	0.33	0.64
150.0	0.44	4.39	6.59	4.39	0.44	0.06	0.29
152.5	0.30	2.37	4.16	2.37	0.30	0.09	0.05
155.0	0.26	1.06	2.20	1.06	0.26	0.09	0.00
157.5	0.29	0.54	1.14	0.54	0.29	0.20	0.07
160.0	0.27	0.44	0.58	0.44	0.27	0.22	0.17
162.5	0.37	0.38	0.54	0.38	0.37	0.27	0.25
165.0	0.36	0.38	0.47	0.38	0.36	0.27	0.25
167.5	0.28	0.41	0.45	0.41	0.28	0.23	0.30
170.0	0.32	0.43	0.42	0.43	0.32	0.28	0.23
172.5	0.39	0.45	0.52	0.45	0.39	0.40	0.37
175.0	0.46	0.48	0.57	0.48	0.46	0.49	0.44
177.5	0.44	0.48	0.62	0.48	0.44	0.55	0.57
180.0	0.51	0.51	0.51	0.51	0.51	0.51	0.51

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1575.02	N.A.	18.80
0-30	3078.82	N.A.	36.70
0-40	4595.73	N.A.	54.80
0-60	6922.45	N.A.	82.50
0-80	8033.66	N.A.	95.70
0-90	8196.87	N.A.	97.70
10-90	7764.97	N.A.	92.50
20-40	3020.71	N.A.	36.00
20-50	4331.05	N.A.	51.60
40-70	3033.52	N.A.	36.20
60-80	1111.2	N.A.	13.20
70-80	404.39	N.A.	4.80
80-90	163.22	N.A.	1.90
90-110	123.09	N.A.	1.50
90-120	158.73	N.A.	1.90
90-130	180.14	N.A.	2.10
90-150	193.73	N.A.	2.30
90-180	194.29	N.A.	2.30
110-180	71.20	N.A.	0.80
0-180	8391.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	431.91
10-20	1143.12
20-30	1503.8
30-40	1516.9
40-50	1310.35
50-60	1016.37
60-70	706.81
70-80	404.39
80-90	163.22
90-100	72.01
100-110	51.07
110-120	35.64
120-130	21.41
130-140	10.36
140-150	3.23
150-160	0.42
160-170	0.10
170-180	0.04

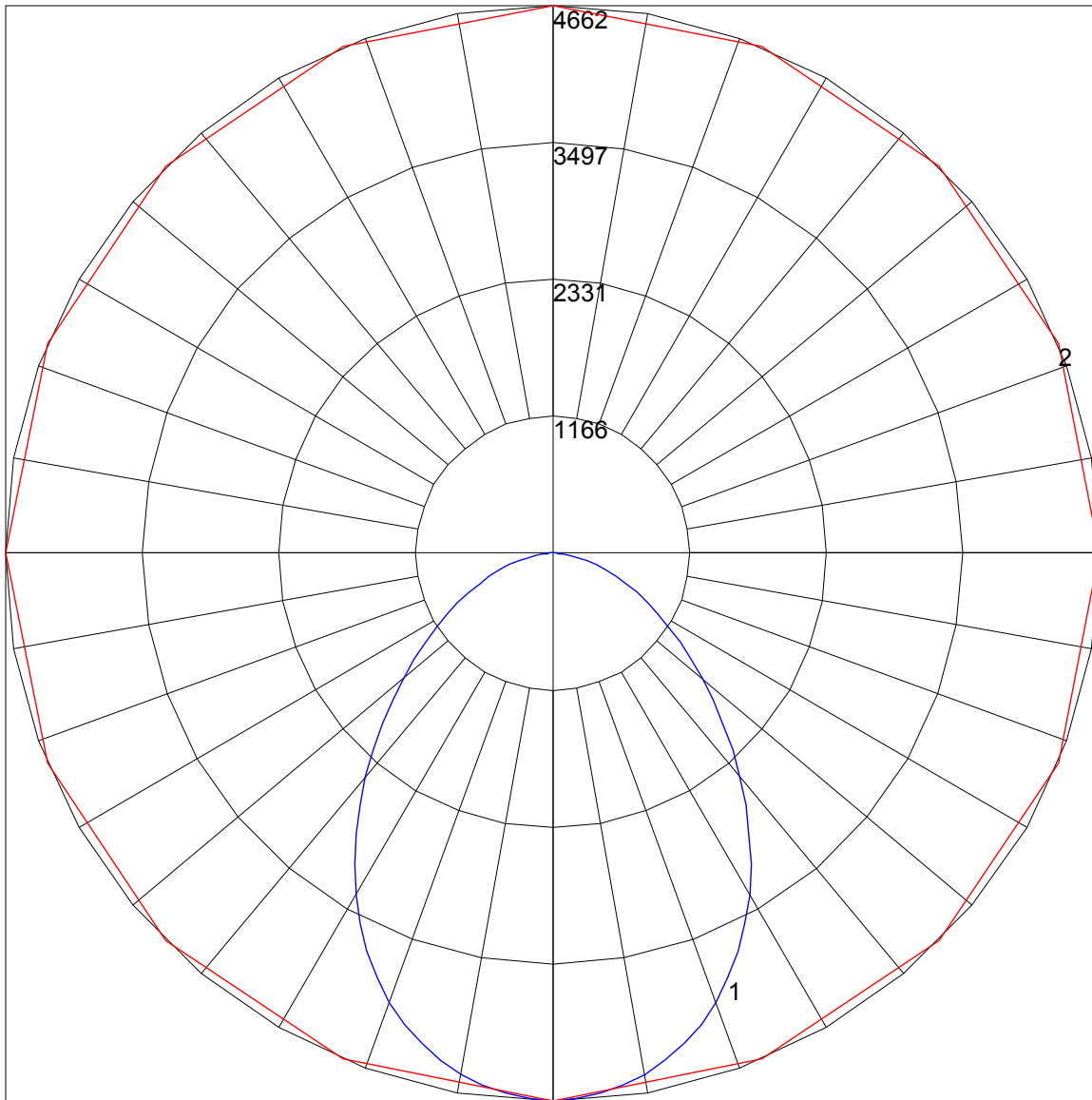
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	106	102	99	96	98	95	92	94	91	89	90	88	86	84
2	100	93	87	82	98	91	85	81	87	82	78	84	80	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	68	75	70	66	72	68	65	63
4	86	75	67	61	83	73	66	60	71	64	59	68	62	58	66	61	57	55
5	79	68	59	53	77	66	59	53	64	57	52	62	56	51	60	55	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	55	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	52	46	42	51	45	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	36
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 4662.44 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.)