

PHILIPS

PHILIPS

Day-Brite



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX08LL40-UNV-M.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33962.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-M

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

[LAMP] LED. LUMINAIRE OUTPUT = 9543 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9543
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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)	1.26
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	3643	4815	3523
55	1094	830	475
65	970	364	428
75	644	333	337
85	277	293	392

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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	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72
2.5	5429.37	5420.94	5437.14	5444.68	5459.77	5444.68	5437.14	5420.94	5429.37	5420.94
5.0	5475.02	5463.19	5480.46	5489.26	5491.06	5489.26	5480.46	5463.19	5475.02	5463.19
7.5	5545.54	5532.06	5546.59	5542.23	5543.54	5542.23	5546.59	5532.06	5545.54	5532.06
10.0	5626.80	5623.11	5628.89	5633.27	5624.37	5633.27	5628.89	5623.11	5626.80	5623.11
12.5	5695.90	5713.72	5736.65	5723.02	5731.77	5723.02	5736.65	5713.72	5695.90	5713.72
15.0	5725.46	5778.81	5846.43	5836.03	5856.06	5836.03	5846.43	5778.81	5725.46	5778.81
17.5	5681.94	5780.56	5856.07	5814.88	5819.25	5814.88	5856.07	5780.56	5681.94	5780.56
20.0	5518.91	5679.73	5646.70	5789.93	5809.64	5789.93	5646.70	5679.73	5518.91	5679.73
22.5	5231.87	5443.70	5894.31	5912.94	5974.25	5912.94	5894.31	5443.70	5231.87	5443.70
25.0	4882.76	5133.04	5721.28	5892.40	6014.61	5892.40	5721.28	5133.04	4882.76	5133.04
27.5	4509.98	4786.14	5439.52	5798.66	5919.80	5798.66	5439.52	4786.14	4509.98	4786.14
30.0	4177.22	4451.17	5085.97	5518.60	5472.43	5518.60	5085.97	4451.17	4177.22	4451.17
32.5	3903.78	4165.14	4736.68	5050.15	5052.77	5050.15	4736.68	4165.14	3903.78	4165.14
35.0	3607.86	3891.76	4359.34	4529.48	4433.10	4529.48	4359.34	3891.76	3607.86	3891.76
37.5	3227.83	3587.26	3932.45	3950.68	3797.33	3950.68	3932.45	3587.26	3227.83	3587.26
40.0	2731.51	3205.32	3469.32	3318.34	3136.37	3318.34	3469.32	3205.32	2731.51	3205.32
42.5	2127.21	2690.47	2952.36	2639.61	2438.84	2639.61	2952.36	2690.47	2127.21	2690.47
45.0	1457.07	2053.37	2347.45	1917.99	1758.87	1917.99	2347.45	2053.37	1457.07	2053.37
47.5	886.18	1375.80	1706.68	1295.14	1154.09	1295.14	1706.68	1375.80	886.18	1375.80
50.0	525.65	819.13	1111.95	787.30	672.51	787.30	1111.95	819.13	525.65	819.13
52.5	402.06	477.21	644.85	454.16	344.00	454.16	644.85	477.21	402.06	477.21
55.0	370.75	319.25	365.57	251.70	215.81	251.70	365.57	319.25	370.75	319.25
57.5	341.38	262.85	248.68	196.13	193.30	196.13	248.68	262.85	341.38	262.85
60.0	308.76	230.41	199.81	181.65	207.65	181.65	199.81	230.41	308.76	230.41
62.5	280.41	203.88	165.20	186.26	190.71	186.26	165.20	203.88	280.41	203.88
65.0	259.48	177.65	138.32	179.07	169.13	179.07	138.32	177.65	259.48	177.65
67.5	224.19	149.67	125.10	159.49	156.30	159.49	125.10	149.67	224.19	149.67
70.0	220.43	122.20	117.46	144.96	142.81	144.96	117.46	122.20	220.43	122.20
72.5	171.69	95.79	114.90	131.73	131.33	131.73	114.90	95.79	171.69	95.79
75.0	121.10	72.87	102.38	116.35	109.10	116.35	102.38	72.87	121.10	72.87
77.5	88.40	56.02	92.71	87.27	89.46	87.27	92.71	56.02	88.40	56.02
80.0	63.86	44.32	70.54	86.92	97.22	86.92	70.54	44.32	63.86	44.32
82.5	44.05	36.72	64.52	98.34	101.77	98.34	64.52	36.72	44.05	36.72
85.0	28.49	30.60	66.23	91.83	95.21	91.83	66.23	30.60	28.49	30.60
87.5	16.65	27.58	69.22	85.59	89.66	85.59	69.22	27.58	16.65	27.58
90.0	7.35	20.72	53.75	56.29	58.31	56.29	53.75	20.72	7.35	20.72
92.5	6.13	18.04	31.58	28.16	29.05	28.16	31.58	18.04	6.13	18.04
95.0	8.38	11.99	11.44	14.65	15.76	14.65	11.44	11.99	8.38	11.99
97.5	12.54	6.83	8.76	12.46	13.61	12.46	8.76	6.83	12.54	6.83
100.0	13.33	6.49	9.03	11.43	12.36	11.43	9.03	6.49	13.33	6.49
102.5	12.95	6.35	9.10	11.30	12.10	11.30	9.10	6.35	12.95	6.35
105.0	11.65	6.25	8.95	11.30	12.17	11.30	8.95	6.25	11.65	6.25
107.5	10.06	5.97	8.07	10.95	11.83	10.95	8.07	5.97	10.06	5.97
110.0	8.29	5.27	7.19	9.71	10.98	9.71	7.19	5.27	8.29	5.27
112.5	6.28	4.49	6.63	8.40	9.67	8.40	6.63	4.49	6.28	4.49
115.0	4.70	3.75	6.22	7.48	8.45	7.48	6.22	3.75	4.70	3.75
117.5	3.54	3.29	5.71	7.03	7.82	7.03	5.71	3.29	3.54	3.29
120.0	2.76	3.23	5.17	6.54	7.48	6.54	5.17	3.23	2.76	3.23
122.5	2.21	2.72	4.92	5.79	6.71	5.79	4.92	2.72	2.21	2.72
125.0	1.87	2.18	5.24	5.14	6.01	5.14	5.24	2.18	1.87	2.18
127.5	1.74	1.90	7.13	4.98	5.65	4.98	7.13	1.90	1.74	1.90
130.0	1.79	1.78	7.61	5.34	5.67	5.34	7.61	1.78	1.79	1.78
132.5	1.81	1.78	4.78	7.19	6.29	7.19	4.78	1.78	1.81	1.78

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CANDELA TABULATION - (Cont.)

135.0	1.65	1.52	3.34	9.53	9.34	9.53	3.34	1.52	1.65	1.52
137.5	1.35	1.18	2.37	6.03	9.31	6.03	2.37	1.18	1.35	1.18
140.0	1.00	0.86	1.72	4.56	6.11	4.56	1.72	0.86	1.00	0.86
142.5	0.68	0.58	1.13	3.36	4.53	3.36	1.13	0.58	0.68	0.58
145.0	0.49	0.38	0.65	2.73	3.57	2.73	0.65	0.38	0.49	0.38
147.5	0.36	0.23	0.34	2.16	2.91	2.16	0.34	0.23	0.36	0.23
150.0	0.30	0.13	0.00	1.66	2.32	1.66	0.00	0.13	0.30	0.13
152.5	0.25	0.10	0.08	1.19	1.83	1.19	0.08	0.10	0.25	0.10
155.0	0.26	0.19	0.21	0.73	1.40	0.73	0.21	0.19	0.26	0.19
157.5	0.40	0.36	0.35	0.51	1.00	0.51	0.35	0.36	0.40	0.36
160.0	0.57	0.52	0.51	0.63	0.87	0.63	0.51	0.52	0.57	0.52
162.5	0.71	0.64	0.66	0.74	0.94	0.74	0.66	0.64	0.71	0.64
165.0	0.84	0.78	0.72	0.83	0.97	0.83	0.72	0.78	0.84	0.78
167.5	0.82	0.76	0.74	0.89	0.99	0.89	0.74	0.76	0.82	0.76
170.0	0.89	0.83	0.80	0.93	1.03	0.93	0.80	0.83	0.89	0.83
172.5	1.11	1.02	0.98	1.06	1.15	1.06	0.98	1.02	1.11	1.02
175.0	1.27	1.24	1.15	1.17	1.23	1.17	1.15	1.24	1.27	1.24
177.5	1.41	1.36	1.14	1.23	1.33	1.23	1.14	1.36	1.41	1.36
180.0	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28

**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	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72	5426.72
2.5	5437.14	5444.68	5459.77	5444.68	5437.14	5420.94	5429.37
5.0	5480.46	5489.26	5491.06	5489.26	5480.46	5463.19	5475.02
7.5	5546.59	5542.23	5543.54	5542.23	5546.59	5532.06	5545.54
10.0	5628.89	5633.27	5624.37	5633.27	5628.89	5623.11	5626.80
12.5	5736.65	5723.02	5731.77	5723.02	5736.65	5713.72	5695.90
15.0	5846.43	5836.03	5856.06	5836.03	5846.43	5778.81	5725.46
17.5	5856.07	5814.88	5819.25	5814.88	5856.07	5780.56	5681.94
20.0	5646.70	5789.93	5809.64	5789.93	5646.70	5679.73	5518.91
22.5	5894.31	5912.94	5974.25	5912.94	5894.31	5443.70	5231.87
25.0	5721.28	5892.40	6014.61	5892.40	5721.28	5133.04	4882.76
27.5	5439.52	5798.66	5919.80	5798.66	5439.52	4786.14	4509.98
30.0	5085.97	5518.60	5472.43	5518.60	5085.97	4451.17	4177.22
32.5	4736.68	5050.15	5052.77	5050.15	4736.68	4165.14	3903.78
35.0	4359.34	4529.48	4433.10	4529.48	4359.34	3891.76	3607.86
37.5	3932.45	3950.68	3797.33	3950.68	3932.45	3587.26	3227.83
40.0	3469.32	3318.34	3136.37	3318.34	3469.32	3205.32	2731.51
42.5	2952.36	2639.61	2438.84	2639.61	2952.36	2690.47	2127.21
45.0	2347.45	1917.99	1758.87	1917.99	2347.45	2053.37	1457.07
47.5	1706.68	1295.14	1154.09	1295.14	1706.68	1375.80	886.18
50.0	1111.95	787.30	672.51	787.30	1111.95	819.13	525.65
52.5	644.85	454.16	344.00	454.16	644.85	477.21	402.06
55.0	365.57	251.70	215.81	251.70	365.57	319.25	370.75
57.5	248.68	196.13	193.30	196.13	248.68	262.85	341.38
60.0	199.81	181.65	207.65	181.65	199.81	230.41	308.76
62.5	165.20	186.26	190.71	186.26	165.20	203.88	280.41
65.0	138.32	179.07	169.13	179.07	138.32	177.65	259.48
67.5	125.10	159.49	156.30	159.49	125.10	149.67	224.19
70.0	117.46	144.96	142.81	144.96	117.46	122.20	220.43
72.5	114.90	131.73	131.33	131.73	114.90	95.79	171.69
75.0	102.38	116.35	109.10	116.35	102.38	72.87	121.10
77.5	92.71	87.27	89.46	87.27	92.71	56.02	88.40
80.0	70.54	86.92	97.22	86.92	70.54	44.32	63.86

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CANDELA TABULATION - (Cont.)

82.5	64.52	98.34	101.77	98.34	64.52	36.72	44.05
85.0	66.23	91.83	95.21	91.83	66.23	30.60	28.49
87.5	69.22	85.59	89.66	85.59	69.22	27.58	16.65
90.0	53.75	56.29	58.31	56.29	53.75	20.72	7.35
92.5	31.58	28.16	29.05	28.16	31.58	18.04	6.13
95.0	11.44	14.65	15.76	14.65	11.44	11.99	8.38
97.5	8.76	12.46	13.61	12.46	8.76	6.83	12.54
100.0	9.03	11.43	12.36	11.43	9.03	6.49	13.33
102.5	9.10	11.30	12.10	11.30	9.10	6.35	12.95
105.0	8.95	11.30	12.17	11.30	8.95	6.25	11.65
107.5	8.07	10.95	11.83	10.95	8.07	5.97	10.06
110.0	7.19	9.71	10.98	9.71	7.19	5.27	8.29
112.5	6.63	8.40	9.67	8.40	6.63	4.49	6.28
115.0	6.22	7.48	8.45	7.48	6.22	3.75	4.70
117.5	5.71	7.03	7.82	7.03	5.71	3.29	3.54
120.0	5.17	6.54	7.48	6.54	5.17	3.23	2.76
122.5	4.92	5.79	6.71	5.79	4.92	2.72	2.21
125.0	5.24	5.14	6.01	5.14	5.24	2.18	1.87
127.5	7.13	4.98	5.65	4.98	7.13	1.90	1.74
130.0	7.61	5.34	5.67	5.34	7.61	1.78	1.79
132.5	4.78	7.19	6.29	7.19	4.78	1.78	1.81
135.0	3.34	9.53	9.34	9.53	3.34	1.52	1.65
137.5	2.37	6.03	9.31	6.03	2.37	1.18	1.35
140.0	1.72	4.56	6.11	4.56	1.72	0.86	1.00
142.5	1.13	3.36	4.53	3.36	1.13	0.58	0.68
145.0	0.65	2.73	3.57	2.73	0.65	0.38	0.49
147.5	0.34	2.16	2.91	2.16	0.34	0.23	0.36
150.0	0.00	1.66	2.32	1.66	0.00	0.13	0.30
152.5	0.08	1.19	1.83	1.19	0.08	0.10	0.25
155.0	0.21	0.73	1.40	0.73	0.21	0.19	0.26
157.5	0.35	0.51	1.00	0.51	0.35	0.36	0.40
160.0	0.51	0.63	0.87	0.63	0.51	0.52	0.57
162.5	0.66	0.74	0.94	0.74	0.66	0.64	0.71
165.0	0.72	0.83	0.97	0.83	0.72	0.78	0.84
167.5	0.74	0.89	0.99	0.89	0.74	0.76	0.82
170.0	0.80	0.93	1.03	0.93	0.80	0.83	0.89
172.5	0.98	1.06	1.15	1.06	0.98	1.02	1.11
175.0	1.15	1.17	1.23	1.17	1.15	1.24	1.27
177.5	1.14	1.23	1.33	1.23	1.14	1.36	1.41
180.0	1.28	1.28	1.28	1.28	1.28	1.28	1.28

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2158.88	N.A.	22.60
0-30	4683.38	N.A.	49.10
0-40	7277.78	N.A.	76.30
0-60	9146.57	N.A.	95.80
0-80	9431.23	N.A.	98.80
0-90	9498.13	N.A.	99.50
10-90	8970.46	N.A.	94.00
20-40	5118.9	N.A.	53.60
20-50	6642.22	N.A.	69.60
40-70	2044.66	N.A.	21.40
60-80	284.66	N.A.	3.00
70-80	108.79	N.A.	1.10
80-90	66.90	N.A.	0.70
90-110	29.58	N.A.	0.30
90-120	35.75	N.A.	0.40
90-130	39.76	N.A.	0.40
90-150	44.02	N.A.	0.50
90-180	44.60	N.A.	0.50
110-180	15.02	N.A.	0.20
0-180	9542.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	527.67
10-20	1631.21
20-30	2524.5
30-40	2594.39
40-50	1523.32
50-60	345.47
60-70	175.87
70-80	108.79
80-90	66.90
90-100	19.70
100-110	9.89
110-120	6.17
120-130	4.00
130-140	3.27
140-150	0.99
150-160	0.26
160-170	0.22
170-180	0.10

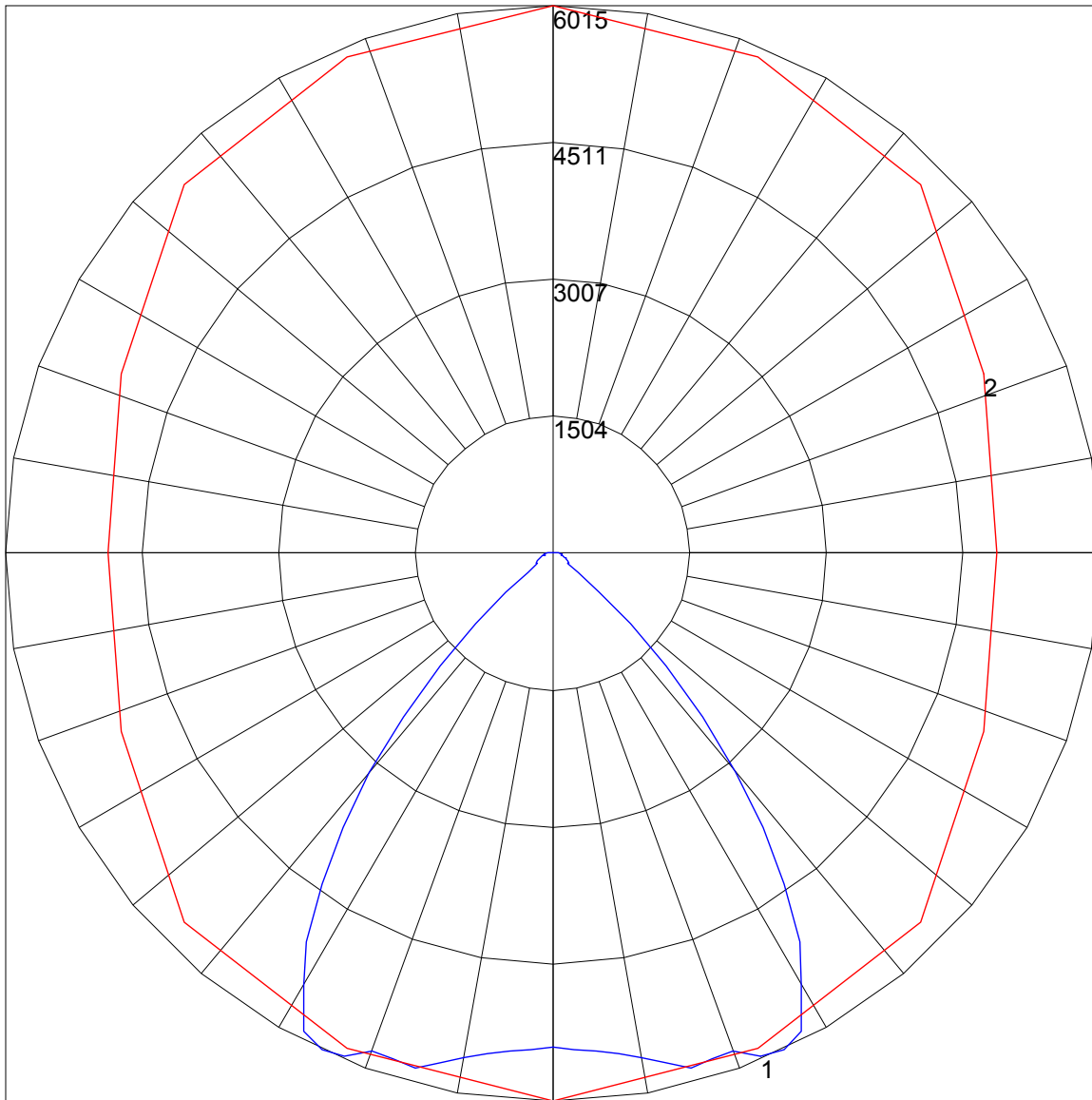
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	68	63	71	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 6014.61 Located At Horizontal Angle = 90, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)