

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-M-LCP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] FO33957.PSO
 [TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
 [ISSUE DATE] 12/22/14
 [MANUFAC] SIGNIFY DAY-BRITE - CFI
 [LUMCAT] APX12LL40-UNV-M-LCP
 [LUMINAIRE] APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER MEDIUM OPTICS NO RESISTOR DP LENS
 [LAMP] LED. LUMINAIRE OUTPUT = 11342 LMS
 [TEST DATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	95.7
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	4239	5583	4137
55	1298	979	572
65	1138	416	520
75	690	369	384
85	263	322	458

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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	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49
2.5	6448.78	6443.16	6455.97	6459.23	6461.95	6459.23	6455.97	6443.16	6448.78	6443.16
5.0	6500.51	6488.27	6503.87	6517.98	6514.60	6517.98	6503.87	6488.27	6500.51	6488.27
7.5	6587.24	6572.02	6588.45	6597.32	6589.41	6597.32	6588.45	6572.02	6587.24	6572.02
10.0	6685.08	6675.54	6691.00	6688.57	6684.47	6688.57	6691.00	6675.54	6685.08	6675.54
12.5	6769.50	6786.86	6813.53	6798.56	6807.37	6798.56	6813.53	6786.86	6769.50	6786.86
15.0	6805.15	6871.91	6944.18	6941.62	6936.24	6941.62	6944.18	6871.91	6805.15	6871.91
17.5	6744.04	6880.85	7053.09	7096.18	7099.98	7096.18	7053.09	6880.85	6744.04	6880.85
20.0	6549.04	6761.30	7095.35	7262.50	7294.99	7262.50	7095.35	6761.30	6549.04	6761.30
22.5	6206.02	6492.38	7012.12	7399.60	7472.62	7399.60	7012.12	6492.38	6206.02	6492.38
25.0	5792.72	6125.50	6827.62	7361.80	7450.97	7361.80	6827.62	6125.50	5792.72	6125.50
27.5	5344.06	5711.62	6496.31	7057.90	7171.48	7057.90	6496.31	5711.62	5344.06	5711.62
30.0	4964.45	5313.81	6066.59	6534.55	6631.76	6534.55	6066.59	5313.81	4964.45	5313.81
32.5	4628.82	4970.37	5616.42	5946.44	5968.34	5946.44	5616.42	4970.37	4628.82	4970.37
35.0	4255.66	4637.43	5155.66	5338.02	5233.30	5338.02	5155.66	4637.43	4255.66	4637.43
37.5	3799.13	4269.30	4638.69	4674.65	4467.84	4674.65	4638.69	4269.30	3799.13	4269.30
40.0	3203.45	3813.45	4054.63	3909.30	3685.33	3909.30	4054.63	3813.45	3203.45	3813.45
42.5	2473.47	3219.99	3421.43	3099.40	2873.37	3099.40	3421.43	3219.99	2473.47	3219.99
45.0	1695.72	2466.52	2721.83	2258.18	2065.67	2258.18	2721.83	2466.52	1695.72	2466.52
47.5	1029.33	1668.08	1968.36	1513.09	1359.43	1513.09	1968.36	1668.08	1029.33	1668.08
50.0	619.89	1000.04	1277.69	932.98	816.52	932.98	1277.69	1000.04	619.89	1000.04
52.5	476.26	581.51	743.26	547.77	451.52	547.77	743.26	581.51	476.26	581.51
55.0	440.04	380.86	431.00	308.64	259.63	308.64	431.00	380.86	440.04	380.86
57.5	406.94	305.92	292.80	231.39	227.15	231.39	292.80	305.92	406.94	305.92
60.0	368.70	265.31	233.87	211.32	223.75	211.32	233.87	265.31	368.70	265.31
62.5	333.10	230.71	191.43	208.22	226.35	208.22	191.43	230.71	333.10	230.71
65.0	304.66	195.73	157.85	207.95	205.33	207.95	157.85	195.73	304.66	195.73
67.5	260.89	161.24	141.30	189.56	182.75	189.56	141.30	161.24	260.89	161.24
70.0	250.62	129.52	130.46	167.99	164.46	167.99	130.46	129.52	250.62	129.52
72.5	194.32	101.09	126.48	150.24	149.07	150.24	126.48	101.09	194.32	101.09
75.0	129.86	74.42	113.44	133.34	124.37	133.34	113.44	74.42	129.86	74.42
77.5	92.20	56.13	99.57	102.27	102.58	102.27	99.57	56.13	92.20	56.13
80.0	63.63	43.75	78.62	96.52	104.61	96.52	78.62	43.75	63.63	43.75
82.5	41.84	35.95	73.53	106.80	115.00	106.80	73.53	35.95	41.84	35.95
85.0	27.11	30.58	72.75	111.46	111.34	111.46	72.75	30.58	27.11	30.58
87.5	16.75	27.40	78.02	97.01	99.08	97.01	78.02	27.40	16.75	27.40
90.0	9.31	21.19	58.84	72.41	71.09	72.41	58.84	21.19	9.31	21.19
92.5	6.94	17.90	41.34	36.95	34.78	36.95	41.34	17.90	6.94	17.90
95.0	8.28	13.68	13.24	11.16	12.47	11.16	13.24	13.68	8.28	13.68
97.5	10.71	4.52	4.66	7.57	8.53	7.57	4.66	4.52	10.71	4.52
100.0	11.79	3.21	3.86	6.10	7.03	6.10	3.86	3.21	11.79	3.21
102.5	11.46	3.13	3.40	5.31	6.16	5.31	3.40	3.13	11.46	3.13
105.0	10.54	3.15	3.02	4.94	5.84	4.94	3.02	3.15	10.54	3.15
107.5	9.07	2.94	2.48	4.34	5.36	4.34	2.48	2.94	9.07	2.94
110.0	7.25	2.65	1.87	3.49	4.64	3.49	1.87	2.65	7.25	2.65
112.5	5.54	2.26	1.53	2.53	3.72	2.53	1.53	2.26	5.54	2.26
115.0	4.15	1.93	1.39	1.81	2.77	1.81	1.39	1.93	4.15	1.93
117.5	3.19	1.96	1.34	1.52	2.16	1.52	1.34	1.96	3.19	1.96
120.0	2.51	2.26	1.33	1.54	2.00	1.54	1.33	2.26	2.51	2.26
122.5	2.08	2.24	1.84	1.48	1.91	1.48	1.84	2.24	2.08	2.24
125.0	1.80	1.80	3.53	1.55	1.81	1.55	3.53	1.80	1.80	1.80
127.5	1.53	1.32	6.77	2.29	2.18	2.29	6.77	1.32	1.53	1.32
130.0	1.39	1.08	6.23	4.46	3.37	4.46	6.23	1.08	1.39	1.08
132.5	1.20	1.00	3.51	9.60	7.12	9.60	3.51	1.00	1.20	1.00

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135.0	0.93	0.76	2.12	8.67	10.31	8.67	2.12	0.76	0.93	0.76
137.5	0.67	0.58	1.36	5.19	7.66	5.19	1.36	0.58	0.67	0.58
140.0	0.41	0.33	0.93	3.35	4.97	3.35	0.93	0.33	0.41	0.33
142.5	0.19	0.18	0.53	2.34	3.36	2.34	0.53	0.18	0.19	0.18
145.0	0.09	0.07	0.33	1.82	2.55	1.82	0.33	0.07	0.09	0.07
147.5	0.09	0.00	0.22	1.39	2.00	1.39	0.22	0.00	0.09	0.00
150.0	0.05	0.01	0.29	1.06	1.64	1.06	0.29	0.01	0.05	0.01
152.5	0.16	0.16	0.33	0.91	1.33	0.91	0.33	0.16	0.16	0.16
155.0	0.36	0.33	0.45	0.81	1.18	0.81	0.45	0.33	0.36	0.33
157.5	0.54	0.51	0.56	0.87	1.23	0.87	0.56	0.51	0.54	0.51
160.0	0.73	0.71	0.72	1.00	1.27	1.00	0.72	0.71	0.73	0.71
162.5	0.85	0.87	0.88	1.11	1.33	1.11	0.88	0.87	0.85	0.87
165.0	1.06	1.02	0.99	1.18	1.33	1.18	0.99	1.02	1.06	1.02
167.5	0.99	0.96	1.01	1.28	1.42	1.28	1.01	0.96	0.99	0.96
170.0	1.12	1.10	1.01	1.32	1.47	1.32	1.01	1.10	1.12	1.10
172.5	1.34	1.30	1.30	1.48	1.62	1.48	1.30	1.30	1.34	1.30
175.0	1.53	1.54	1.48	1.61	1.70	1.61	1.48	1.54	1.53	1.54
177.5	1.72	1.69	1.48	1.67	1.79	1.67	1.48	1.69	1.72	1.69
180.0	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66

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	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49	6439.49
2.5	6455.97	6459.23	6461.95	6459.23	6455.97	6443.16	6448.78
5.0	6503.87	6517.98	6514.60	6517.98	6503.87	6488.27	6500.51
7.5	6588.45	6597.32	6589.41	6597.32	6588.45	6572.02	6587.24
10.0	6691.00	6688.57	6684.47	6688.57	6691.00	6675.54	6685.08
12.5	6813.53	6798.56	6807.37	6798.56	6813.53	6786.86	6769.50
15.0	6944.18	6941.62	6936.24	6941.62	6944.18	6871.91	6805.15
17.5	7053.09	7096.18	7099.98	7096.18	7053.09	6880.85	6744.04
20.0	7095.35	7262.50	7294.99	7262.50	7095.35	6761.30	6549.04
22.5	7012.12	7399.60	7472.62	7399.60	7012.12	6492.38	6206.02
25.0	6827.62	7361.80	7450.97	7361.80	6827.62	6125.50	5792.72
27.5	6496.31	7057.90	7171.48	7057.90	6496.31	5711.62	5344.06
30.0	6066.59	6534.55	6631.76	6534.55	6066.59	5313.81	4964.45
32.5	5616.42	5946.44	5968.34	5946.44	5616.42	4970.37	4628.82
35.0	5155.66	5338.02	5233.30	5338.02	5155.66	4637.43	4255.66
37.5	4638.69	4674.65	4467.84	4674.65	4638.69	4269.30	3799.13
40.0	4054.63	3909.30	3685.33	3909.30	4054.63	3813.45	3203.45
42.5	3421.43	3099.40	2873.37	3099.40	3421.43	3219.99	2473.47
45.0	2721.83	2258.18	2065.67	2258.18	2721.83	2466.52	1695.72
47.5	1968.36	1513.09	1359.43	1513.09	1968.36	1668.08	1029.33
50.0	1277.69	932.98	816.52	932.98	1277.69	1000.04	619.89
52.5	743.26	547.77	451.52	547.77	743.26	581.51	476.26
55.0	431.00	308.64	259.63	308.64	431.00	380.86	440.04
57.5	292.80	231.39	227.15	231.39	292.80	305.92	406.94
60.0	233.87	211.32	223.75	211.32	233.87	265.31	368.70
62.5	191.43	208.22	226.35	208.22	191.43	230.71	333.10
65.0	157.85	207.95	205.33	207.95	157.85	195.73	304.66
67.5	141.30	189.56	182.75	189.56	141.30	161.24	260.89
70.0	130.46	167.99	164.46	167.99	130.46	129.52	250.62
72.5	126.48	150.24	149.07	150.24	126.48	101.09	194.32
75.0	113.44	133.34	124.37	133.34	113.44	74.42	129.86
77.5	99.57	102.27	102.58	102.27	99.57	56.13	92.20
80.0	78.62	96.52	104.61	96.52	78.62	43.75	63.63

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82.5	73.53	106.80	115.00	106.80	73.53	35.95	41.84
85.0	72.75	111.46	111.34	111.46	72.75	30.58	27.11
87.5	78.02	97.01	99.08	97.01	78.02	27.40	16.75
90.0	58.84	72.41	71.09	72.41	58.84	21.19	9.31
92.5	41.34	36.95	34.78	36.95	41.34	17.90	6.94
95.0	13.24	11.16	12.47	11.16	13.24	13.68	8.28
97.5	4.66	7.57	8.53	7.57	4.66	4.52	10.71
100.0	3.86	6.10	7.03	6.10	3.86	3.21	11.79
102.5	3.40	5.31	6.16	5.31	3.40	3.13	11.46
105.0	3.02	4.94	5.84	4.94	3.02	3.15	10.54
107.5	2.48	4.34	5.36	4.34	2.48	2.94	9.07
110.0	1.87	3.49	4.64	3.49	1.87	2.65	7.25
112.5	1.53	2.53	3.72	2.53	1.53	2.26	5.54
115.0	1.39	1.81	2.77	1.81	1.39	1.93	4.15
117.5	1.34	1.52	2.16	1.52	1.34	1.96	3.19
120.0	1.33	1.54	2.00	1.54	1.33	2.26	2.51
122.5	1.84	1.48	1.91	1.48	1.84	2.24	2.08
125.0	3.53	1.55	1.81	1.55	3.53	1.80	1.80
127.5	6.77	2.29	2.18	2.29	6.77	1.32	1.53
130.0	6.23	4.46	3.37	4.46	6.23	1.08	1.39
132.5	3.51	9.60	7.12	9.60	3.51	1.00	1.20
135.0	2.12	8.67	10.31	8.67	2.12	0.76	0.93
137.5	1.36	5.19	7.66	5.19	1.36	0.58	0.67
140.0	0.93	3.35	4.97	3.35	0.93	0.33	0.41
142.5	0.53	2.34	3.36	2.34	0.53	0.18	0.19
145.0	0.33	1.82	2.55	1.82	0.33	0.07	0.09
147.5	0.22	1.39	2.00	1.39	0.22	0.00	0.09
150.0	0.29	1.06	1.64	1.06	0.29	0.01	0.05
152.5	0.33	0.91	1.33	0.91	0.33	0.16	0.16
155.0	0.45	0.81	1.18	0.81	0.45	0.33	0.36
157.5	0.56	0.87	1.23	0.87	0.56	0.51	0.54
160.0	0.72	1.00	1.27	1.00	0.72	0.71	0.73
162.5	0.88	1.11	1.33	1.11	0.88	0.87	0.85
165.0	0.99	1.18	1.33	1.18	0.99	1.02	1.06
167.5	1.01	1.28	1.42	1.28	1.01	0.96	0.99
170.0	1.01	1.32	1.47	1.32	1.01	1.10	1.12
172.5	1.30	1.48	1.62	1.48	1.30	1.30	1.34
175.0	1.48	1.61	1.70	1.61	1.48	1.54	1.53
177.5	1.48	1.67	1.79	1.67	1.48	1.69	1.72
180.0	1.66	1.66	1.66	1.66	1.66	1.66	1.66

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2583.45	N.A.	22.80
0-30	5637.5	N.A.	49.70
0-40	8709.3	N.A.	76.80
0-60	10911.75	N.A.	96.20
0-80	11233.66	N.A.	99.00
0-90	11307.74	N.A.	99.70
10-90	10680.96	N.A.	94.20
20-40	6125.85	N.A.	54.00
20-50	7918.00	N.A.	69.80
40-70	2404.21	N.A.	21.20
60-80	321.90	N.A.	2.80
70-80	120.15	N.A.	1.10
80-90	74.09	N.A.	0.70
90-110	25.45	N.A.	0.20
90-120	27.80	N.A.	0.20
90-130	29.99	N.A.	0.30
90-150	33.43	N.A.	0.30
90-180	34.15	N.A.	0.30
110-180	8.69	N.A.	0.10
0-180	11341.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	626.78
10-20	1956.67
20-30	3054.04
30-40	3071.8
40-50	1792.15
50-60	410.31
60-70	201.75
70-80	120.15
80-90	74.09
90-100	20.48
100-110	4.98
110-120	2.35
120-130	2.18
130-140	2.81
140-150	0.63
150-160	0.29
160-170	0.29
170-180	0.14

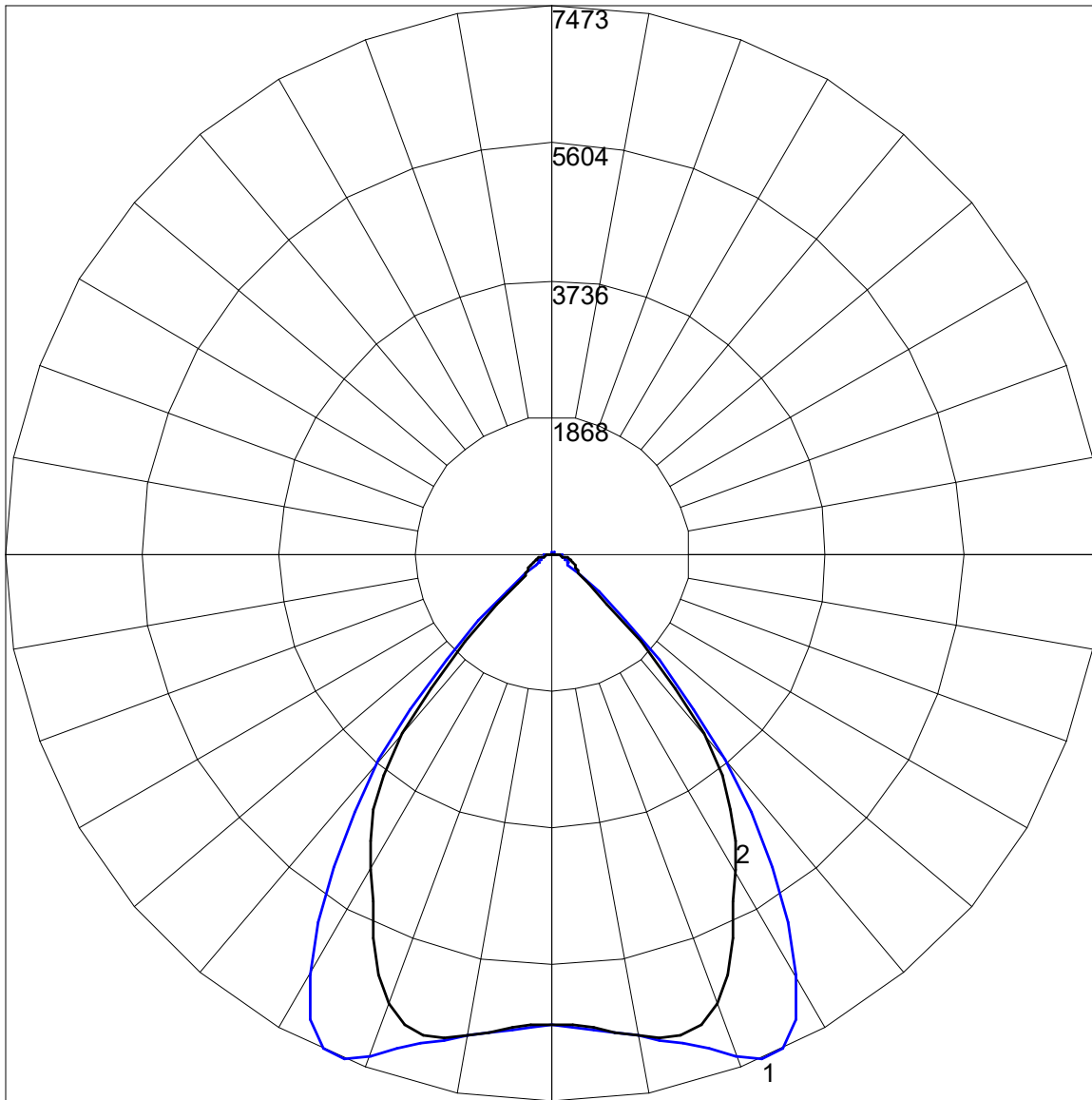
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	59	52	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	48	44	54	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 = 7472.62 Located At Horizontal Angle = 90, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)