

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-M.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] FO33955.PSO
 [TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
 [ISSUE DATE] 12/22/14
 [MANUFAC] SIGNIFY DAY-BRITE - CFI
 [LUMCAT] APX12LL40-UNV-M
 [LUMINAIRE] APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER MEDIUM OPTICS NO RESISTOR DIRA LENS
 [LAMP] LED. LUMINAIRE OUTPUT = 11753 LMS
 [TEST DATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11753
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	4355	5745	4287
55	1349	986	605
65	1212	457	531
75	790	420	416
85	335	378	484

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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	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09
2.5	6637.67	6636.45	6652.19	6657.91	6651.37	6657.91	6652.19	6636.45	6637.67	6636.45
5.0	6695.15	6683.80	6712.29	6718.45	6698.46	6718.45	6712.29	6683.80	6695.15	6683.80
7.5	6782.83	6767.35	6791.59	6784.15	6792.41	6784.15	6791.59	6767.35	6782.83	6767.35
10.0	6883.15	6880.34	6888.21	6895.37	6894.62	6895.37	6888.21	6880.34	6883.15	6880.34
12.5	6969.36	6990.60	7021.37	7008.89	7017.95	7008.89	7021.37	6990.60	6969.36	6990.60
15.0	7005.06	7079.49	7153.78	7152.37	7152.59	7152.37	7153.78	7079.49	7005.06	7079.49
17.5	6943.44	7088.64	7263.82	7323.31	7301.15	7323.31	7263.82	7088.64	6943.44	7088.64
20.0	6734.04	6966.50	7322.98	7500.37	7508.53	7500.37	7322.98	6966.50	6734.04	6966.50
22.5	6373.27	6693.10	7250.82	7655.34	7719.63	7655.34	7250.82	6693.10	6373.27	6693.10
25.0	5942.20	6320.16	7060.53	7629.18	7728.46	7629.18	7060.53	6320.16	5942.20	6320.16
27.5	5490.89	5886.91	6709.10	7291.83	7434.42	7291.83	6709.10	5886.91	5490.89	5886.91
30.0	5100.62	5478.52	6264.28	6743.04	6863.06	6743.04	6264.28	5478.52	5100.62	5478.52
32.5	4751.57	5125.18	5828.28	6142.86	6162.98	6142.86	5828.28	5125.18	4751.57	5125.18
35.0	4382.98	4786.60	5348.52	5489.06	5399.74	5489.06	5348.52	4786.60	4382.98	4786.60
37.5	3920.30	4414.70	4804.75	4778.76	4624.74	4778.76	4804.75	4414.70	3920.30	4414.70
40.0	3325.22	3963.80	4210.24	4009.85	3800.61	4009.85	4210.24	3963.80	3325.22	3963.80
42.5	2578.66	3366.61	3549.80	3168.43	2964.24	3168.43	3549.80	3366.61	2578.66	3366.61
45.0	1741.89	2589.55	2800.74	2287.57	2140.68	2287.57	2800.74	2589.55	1741.89	2589.55
47.5	1071.47	1757.62	2028.81	1524.30	1401.99	1524.30	2028.81	1757.62	1071.47	1757.62
50.0	644.76	1052.11	1312.61	926.46	823.78	926.46	1312.61	1052.11	644.76	1052.11
52.5	497.64	611.93	751.00	538.96	439.69	538.96	751.00	611.93	497.64	611.93
55.0	457.28	396.14	434.27	312.44	274.50	312.44	434.27	396.14	457.28	396.14
57.5	423.97	319.22	301.49	243.84	239.89	243.84	301.49	319.22	423.97	319.22
60.0	385.12	278.70	243.81	225.44	250.34	225.44	243.81	278.70	385.12	278.70
62.5	350.79	245.97	200.71	234.13	233.38	234.13	200.71	245.97	350.79	245.97
65.0	324.27	212.55	173.50	220.29	209.71	220.29	173.50	212.55	324.27	212.55
67.5	279.28	177.06	157.77	197.27	193.73	197.27	157.77	177.06	279.28	177.06
70.0	272.59	145.28	151.89	180.73	177.41	180.73	151.89	145.28	272.59	145.28
72.5	215.20	114.44	146.39	164.51	162.65	164.51	146.39	114.44	215.20	114.44
75.0	148.70	87.67	129.33	146.24	134.81	146.24	129.33	87.67	148.70	87.67
77.5	107.71	69.51	116.15	111.44	112.96	111.44	116.15	69.51	107.71	69.51
80.0	77.56	57.13	87.45	108.79	121.02	108.79	87.45	57.13	77.56	57.13
82.5	53.08	50.08	83.39	120.84	125.06	120.84	83.39	50.08	53.08	50.08
85.0	34.49	42.19	85.43	113.07	117.46	113.07	85.43	42.19	34.49	42.19
87.5	20.00	36.22	85.18	107.11	109.38	107.11	85.18	36.22	20.00	36.22
90.0	8.63	27.60	69.34	72.52	74.03	72.52	69.34	27.60	8.63	27.60
92.5	7.58	24.41	39.98	36.17	37.99	36.17	39.98	24.41	7.58	24.41
95.0	10.57	14.68	14.57	18.70	20.19	18.70	14.57	14.68	10.57	14.68
97.5	15.68	8.75	11.61	16.11	17.50	16.11	11.61	8.75	15.68	8.75
100.0	16.46	8.52	11.87	14.61	15.80	14.61	11.87	8.52	16.46	8.52
102.5	15.74	8.35	11.92	14.67	15.38	14.67	11.92	8.35	15.74	8.35
105.0	14.08	8.12	11.74	14.62	15.54	14.62	11.74	8.12	14.08	8.12
107.5	12.15	7.71	10.67	14.17	15.26	14.17	10.67	7.71	12.15	7.71
110.0	10.14	6.94	9.55	12.81	14.22	12.81	9.55	6.94	10.14	6.94
112.5	7.64	5.93	8.73	11.07	12.52	11.07	8.73	5.93	7.64	5.93
115.0	5.72	5.06	8.30	9.82	10.91	9.82	8.30	5.06	5.72	5.06
117.5	4.35	4.59	7.59	9.26	10.08	9.26	7.59	4.59	4.35	4.59
120.0	3.41	4.65	6.87	8.72	9.68	8.72	6.87	4.65	3.41	4.65
122.5	2.71	4.21	6.52	7.66	8.77	7.66	6.52	4.21	2.71	4.21
125.0	2.30	3.30	6.80	6.88	7.91	6.88	6.80	3.30	2.30	3.30
127.5	2.12	2.77	8.60	6.66	7.45	6.66	8.60	2.77	2.12	2.77
130.0	2.22	2.38	10.31	6.98	7.33	6.98	10.31	2.38	2.22	2.38
132.5	2.20	2.16	6.83	8.58	7.88	8.58	6.83	2.16	2.20	2.16

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CANDELA TABULATION - (Cont.)

135.0	2.03	1.72	4.83	12.81	10.70	12.81	4.83	1.72	2.03	1.72
137.5	1.59	1.22	3.29	8.59	12.08	8.59	3.29	1.22	1.59	1.22
140.0	1.10	0.82	2.36	6.29	7.76	6.29	2.36	0.82	1.10	0.82
142.5	0.84	0.52	1.55	4.45	5.96	4.45	1.55	0.52	0.84	0.52
145.0	0.49	0.26	0.99	3.64	4.58	3.64	0.99	0.26	0.49	0.26
147.5	0.36	0.13	0.57	2.86	3.74	2.86	0.57	0.13	0.36	0.13
150.0	0.27	0.01	0.09	2.15	2.98	2.15	0.09	0.01	0.27	0.01
152.5	0.20	0.00	0.00	1.57	2.26	1.57	0.00	0.00	0.20	0.00
155.0	0.20	0.14	0.13	0.99	1.78	0.99	0.13	0.14	0.20	0.14
157.5	0.37	0.38	0.37	0.58	1.18	0.58	0.37	0.38	0.37	0.38
160.0	0.60	0.57	0.50	0.68	0.97	0.68	0.50	0.57	0.60	0.57
162.5	0.80	0.69	0.67	0.85	1.08	0.85	0.67	0.69	0.80	0.69
165.0	0.87	0.88	0.77	0.97	1.12	0.97	0.77	0.88	0.87	0.88
167.5	0.89	0.79	0.82	1.03	1.13	1.03	0.82	0.79	0.89	0.79
170.0	1.02	0.93	0.92	1.10	1.19	1.10	0.92	0.93	1.02	0.93
172.5	1.27	1.19	1.16	1.27	1.37	1.27	1.16	1.19	1.27	1.19
175.0	1.48	1.42	1.30	1.40	1.47	1.40	1.30	1.42	1.48	1.42
177.5	1.61	1.56	1.37	1.49	1.56	1.49	1.37	1.56	1.61	1.56
180.0	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

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	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09	6634.09
2.5	6652.19	6657.91	6651.37	6657.91	6652.19	6636.45	6637.67
5.0	6712.29	6718.45	6698.46	6718.45	6712.29	6683.80	6695.15
7.5	6791.59	6784.15	6792.41	6784.15	6791.59	6767.35	6782.83
10.0	6888.21	6895.37	6894.62	6895.37	6888.21	6880.34	6883.15
12.5	7021.37	7008.89	7017.95	7008.89	7021.37	6990.60	6969.36
15.0	7153.78	7152.37	7152.59	7152.37	7153.78	7079.49	7005.06
17.5	7263.82	7323.31	7301.15	7323.31	7263.82	7088.64	6943.44
20.0	7322.98	7500.37	7508.53	7500.37	7322.98	6966.50	6734.04
22.5	7250.82	7655.34	7719.63	7655.34	7250.82	6693.10	6373.27
25.0	7060.53	7629.18	7728.46	7629.18	7060.53	6320.16	5942.20
27.5	6709.10	7291.83	7434.42	7291.83	6709.10	5886.91	5490.89
30.0	6264.28	6743.04	6863.06	6743.04	6264.28	5478.52	5100.62
32.5	5828.28	6142.86	6162.98	6142.86	5828.28	5125.18	4751.57
35.0	5348.52	5489.06	5399.74	5489.06	5348.52	4786.60	4382.98
37.5	4804.75	4778.76	4624.74	4778.76	4804.75	4414.70	3920.30
40.0	4210.24	4009.85	3800.61	4009.85	4210.24	3963.80	3325.22
42.5	3549.80	3168.43	2964.24	3168.43	3549.80	3366.61	2578.66
45.0	2800.74	2287.57	2140.68	2287.57	2800.74	2589.55	1741.89
47.5	2028.81	1524.30	1401.99	1524.30	2028.81	1757.62	1071.47
50.0	1312.61	926.46	823.78	926.46	1312.61	1052.11	644.76
52.5	751.00	538.96	439.69	538.96	751.00	611.93	497.64
55.0	434.27	312.44	274.50	312.44	434.27	396.14	457.28
57.5	301.49	243.84	239.89	243.84	301.49	319.22	423.97
60.0	243.81	225.44	250.34	225.44	243.81	278.70	385.12
62.5	200.71	234.13	233.38	234.13	200.71	245.97	350.79
65.0	173.50	220.29	209.71	220.29	173.50	212.55	324.27
67.5	157.77	197.27	193.73	197.27	157.77	177.06	279.28
70.0	151.89	180.73	177.41	180.73	151.89	145.28	272.59
72.5	146.39	164.51	162.65	164.51	146.39	114.44	215.20
75.0	129.33	146.24	134.81	146.24	129.33	87.67	148.70
77.5	116.15	111.44	112.96	111.44	116.15	69.51	107.71
80.0	87.45	108.79	121.02	108.79	87.45	57.13	77.56

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CANDELA TABULATION - (Cont.)

82.5	83.39	120.84	125.06	120.84	83.39	50.08	53.08
85.0	85.43	113.07	117.46	113.07	85.43	42.19	34.49
87.5	85.18	107.11	109.38	107.11	85.18	36.22	20.00
90.0	69.34	72.52	74.03	72.52	69.34	27.60	8.63
92.5	39.98	36.17	37.99	36.17	39.98	24.41	7.58
95.0	14.57	18.70	20.19	18.70	14.57	14.68	10.57
97.5	11.61	16.11	17.50	16.11	11.61	8.75	15.68
100.0	11.87	14.61	15.80	14.61	11.87	8.52	16.46
102.5	11.92	14.67	15.38	14.67	11.92	8.35	15.74
105.0	11.74	14.62	15.54	14.62	11.74	8.12	14.08
107.5	10.67	14.17	15.26	14.17	10.67	7.71	12.15
110.0	9.55	12.81	14.22	12.81	9.55	6.94	10.14
112.5	8.73	11.07	12.52	11.07	8.73	5.93	7.64
115.0	8.30	9.82	10.91	9.82	8.30	5.06	5.72
117.5	7.59	9.26	10.08	9.26	7.59	4.59	4.35
120.0	6.87	8.72	9.68	8.72	6.87	4.65	3.41
122.5	6.52	7.66	8.77	7.66	6.52	4.21	2.71
125.0	6.80	6.88	7.91	6.88	6.80	3.30	2.30
127.5	8.60	6.66	7.45	6.66	8.60	2.77	2.12
130.0	10.31	6.98	7.33	6.98	10.31	2.38	2.22
132.5	6.83	8.58	7.88	8.58	6.83	2.16	2.20
135.0	4.83	12.81	10.70	12.81	4.83	1.72	2.03
137.5	3.29	8.59	12.08	8.59	3.29	1.22	1.59
140.0	2.36	6.29	7.76	6.29	2.36	0.82	1.10
142.5	1.55	4.45	5.96	4.45	1.55	0.52	0.84
145.0	0.99	3.64	4.58	3.64	0.99	0.26	0.49
147.5	0.57	2.86	3.74	2.86	0.57	0.13	0.36
150.0	0.09	2.15	2.98	2.15	0.09	0.01	0.27
152.5	0.00	1.57	2.26	1.57	0.00	0.00	0.20
155.0	0.13	0.99	1.78	0.99	0.13	0.14	0.20
157.5	0.37	0.58	1.18	0.58	0.37	0.38	0.37
160.0	0.50	0.68	0.97	0.68	0.50	0.57	0.60
162.5	0.67	0.85	1.08	0.85	0.67	0.69	0.80
165.0	0.77	0.97	1.12	0.97	0.77	0.88	0.87
167.5	0.82	1.03	1.13	1.03	0.82	0.79	0.89
170.0	0.92	1.10	1.19	1.10	0.92	0.93	1.02
172.5	1.16	1.27	1.37	1.27	1.16	1.19	1.27
175.0	1.30	1.40	1.47	1.40	1.30	1.42	1.48
177.5	1.37	1.49	1.56	1.49	1.37	1.56	1.61
180.0	1.50	1.50	1.50	1.50	1.50	1.50	1.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2661.89	N.A.	22.60
0-30	5815.3	N.A.	49.50
0-40	8986.63	N.A.	76.50
0-60	11259.5	N.A.	95.80
0-80	11611.45	N.A.	98.80
0-90	11695.63	N.A.	99.50
10-90	11049.94	N.A.	94.00
20-40	6324.74	N.A.	53.80
20-50	8176.13	N.A.	69.60
40-70	2489.34	N.A.	21.20
60-80	351.95	N.A.	3.00
70-80	135.48	N.A.	1.20
80-90	84.18	N.A.	0.70
90-110	38.05	N.A.	0.30
90-120	46.14	N.A.	0.40
90-130	51.46	N.A.	0.40
90-150	56.99	N.A.	0.50
90-180	57.65	N.A.	0.50
110-180	19.60	N.A.	0.20
0-180	11753.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	645.68
10-20	2016.21
20-30	3153.41
30-40	3171.33
40-50	1851.39
50-60	421.48
60-70	216.48
70-80	135.48
80-90	84.18
90-100	25.32
100-110	12.73
110-120	8.09
120-130	5.31
130-140	4.26
140-150	1.28
150-160	0.30
160-170	0.24
170-180	0.12

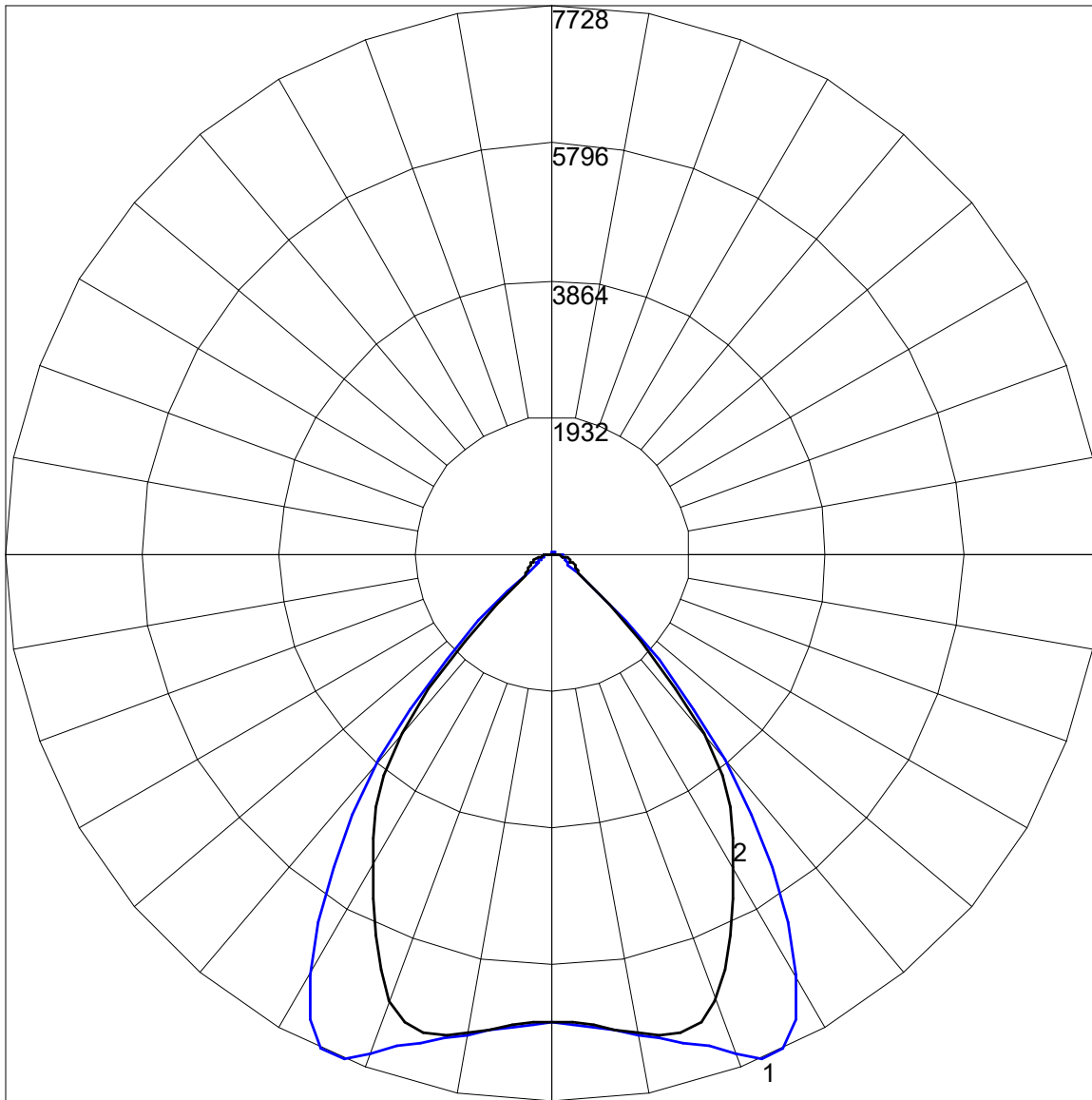
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	58	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	41	49	44	40	39

POLAR GRAPH



Maximum Candela = 7728.46 Located At Horizontal Angle = 90, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)