

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33954.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 12/22/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] APX12LL40-UNV-N
[LUMINAIRE] APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER NARROW OPTICS NO RESISTOR DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 11817 LMS
[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11817
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)	1.00
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.86
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	1523	806	737
55	1659	650	541
65	1198	472	536
75	660	509	441
85	447	520	605

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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	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24
2.5	13851.95	13844.15	13849.15	13824.05	13791.25	13824.05	13849.15	13844.15	13851.95	13844.15
5.0	13840.40	13799.70	13744.75	13663.70	13567.90	13663.70	13744.75	13799.70	13840.40	13799.70
7.5	13813.35	13721.25	13560.15	13356.55	13238.30	13356.55	13560.15	13721.25	13813.35	13721.25
10.0	13720.80	13597.50	13287.80	12960.75	12794.60	12960.75	13287.80	13597.50	13720.80	13597.50
12.5	13532.35	13376.80	12919.90	12437.85	12220.90	12437.85	12919.90	13376.80	13532.35	13376.80
15.0	13200.85	13013.90	12415.65	11810.45	11519.05	11810.45	12415.65	13013.90	13200.85	13013.90
17.5	12723.60	12490.90	11737.45	11019.55	10712.65	11019.55	11737.45	12490.90	12723.60	12490.90
20.0	12131.70	11836.90	10920.95	10053.01	9729.97	10053.01	10920.95	11836.90	12131.70	11836.90
22.5	11395.30	11035.90	9954.95	8934.05	8524.03	8934.05	9954.95	11035.90	11395.30	11035.90
25.0	10464.10	10082.59	8845.98	7720.32	7260.86	7720.32	8845.98	10082.59	10464.10	10082.59
27.5	9213.89	8856.96	7576.66	6448.52	6003.69	6448.52	7576.66	8856.96	9213.89	8856.96
30.0	7455.28	7218.11	6125.71	5133.77	4771.37	5133.77	6125.71	7218.11	7455.28	7218.11
32.5	5315.93	5221.26	4479.69	3757.10	3537.71	3757.10	4479.69	5221.26	5315.93	5221.26
35.0	3418.10	3334.49	2857.29	2441.12	2325.84	2441.12	2857.29	3334.49	3418.10	3334.49
37.5	1977.61	1821.79	1582.37	1390.13	1324.21	1390.13	1582.37	1821.79	1977.61	1821.79
40.0	1167.14	940.45	840.78	736.38	712.38	736.38	840.78	940.45	1167.14	940.45
42.5	750.15	544.24	501.43	451.62	438.29	451.62	501.43	544.24	750.15	544.24
45.0	609.16	405.67	392.86	374.39	368.21	374.39	392.86	405.67	609.16	405.67
47.5	564.72	366.67	360.62	345.14	334.86	345.14	360.62	366.67	564.72	366.67
50.0	534.49	340.44	335.22	315.80	307.44	315.80	335.22	340.44	534.49	340.44
52.5	551.03	316.27	311.35	288.56	272.22	288.56	311.35	316.27	551.03	316.27
55.0	562.39	297.21	286.42	252.01	245.67	252.01	286.42	297.21	562.39	297.21
57.5	504.45	279.70	262.81	231.51	234.49	231.51	262.81	279.70	504.45	279.70
60.0	413.33	254.66	236.46	221.14	233.08	221.14	236.46	254.66	413.33	254.66
62.5	369.63	230.40	202.51	220.93	227.42	220.93	230.40	369.63	230.40	202.51
65.0	320.66	209.98	179.36	213.08	211.82	213.08	209.98	320.66	209.98	179.36
67.5	239.61	183.50	168.21	198.20	198.06	198.20	168.21	183.50	239.61	168.21
70.0	168.71	155.62	167.90	184.87	184.57	184.87	167.90	155.62	168.71	155.62
72.5	137.87	130.23	166.20	170.56	170.67	170.56	166.20	130.23	137.87	130.23
75.0	124.13	108.05	156.66	153.97	142.71	153.97	156.66	108.05	124.13	108.05
77.5	116.80	94.56	145.76	115.20	114.65	115.20	145.76	94.56	116.80	94.56
80.0	99.24	82.80	116.52	113.17	124.89	113.17	116.52	82.80	99.24	82.80
82.5	74.08	78.14	108.47	130.05	135.56	130.05	108.47	78.14	74.08	78.14
85.0	46.07	75.69	117.76	146.36	146.85	146.36	117.76	75.69	46.07	75.69
87.5	27.40	94.19	148.26	145.57	135.84	145.57	148.26	94.19	27.40	94.19
90.0	11.92	72.01	132.18	120.12	108.72	120.12	132.18	72.01	11.92	72.01
92.5	9.97	68.20	88.94	59.04	56.71	59.04	88.94	68.20	9.97	68.20
95.0	18.59	44.15	26.65	23.51	23.95	23.51	26.65	44.15	18.59	44.15
97.5	29.40	14.26	13.91	17.15	17.93	17.15	13.91	14.26	29.40	14.26
100.0	23.79	9.90	12.59	15.05	16.04	15.05	12.59	9.90	23.79	9.90
102.5	17.55	9.29	12.00	14.46	15.04	14.46	12.00	9.29	17.55	9.29
105.0	12.64	9.62	11.46	13.88	14.73	13.88	11.46	9.62	12.64	9.62
107.5	8.62	9.38	9.83	13.10	13.96	13.10	9.38	9.38	8.62	9.38
110.0	6.25	7.50	8.61	11.11	12.33	11.11	8.61	7.50	6.25	7.50
112.5	4.92	5.73	7.89	9.12	10.19	9.12	7.89	5.73	4.92	5.73
115.0	3.68	4.21	7.51	7.98	8.69	7.98	7.51	4.21	3.68	4.21
117.5	2.40	3.84	6.78	7.69	8.10	7.69	6.78	3.84	2.40	3.84
120.0	1.44	4.51	5.51	7.30	7.85	7.30	5.51	4.51	1.44	4.51
122.5	0.60	2.23	4.70	6.00	6.76	6.00	4.70	2.23	0.60	2.23
125.0	0.00	0.35	5.03	4.74	5.60	4.74	5.03	0.35	0.00	0.35
127.5	0.00	0.00	8.91	4.14	4.82	4.14	8.91	0.00	0.00	0.00
130.0	0.00	0.00	9.09	4.61	4.64	4.61	9.09	0.00	0.00	0.00
132.5	0.00	0.00	4.53	7.52	6.67	7.52	4.53	0.00	0.00	0.00

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135.0	0.00	0.00	2.55	9.45	8.68	9.45	2.55	0.00	0.00	0.00
137.5	0.00	0.00	1.50	6.96	8.42	6.96	1.50	0.00	0.00	0.00
140.0	0.00	0.00	0.96	4.05	6.39	4.05	0.96	0.00	0.00	0.00
142.5	0.00	0.00	0.60	2.83	4.00	2.83	0.60	0.00	0.00	0.00
145.0	0.00	0.00	0.38	2.32	3.00	2.32	0.38	0.00	0.00	0.00
147.5	0.00	0.00	0.23	1.91	2.41	1.91	0.23	0.00	0.00	0.00
150.0	0.00	0.00	0.00	1.68	2.05	1.68	0.00	0.00	0.00	0.00
152.5	0.15	0.12	0.17	1.33	1.69	1.33	0.17	0.12	0.15	0.12
155.0	0.30	0.49	0.51	1.00	1.45	1.00	0.51	0.49	0.30	0.49
157.5	0.80	0.87	0.87	0.85	1.23	0.85	0.87	0.87	0.80	0.87
160.0	1.22	1.27	1.22	1.21	1.38	1.21	1.22	1.27	1.22	1.27
162.5	1.61	1.70	1.66	1.64	1.64	1.64	1.66	1.70	1.61	1.70
165.0	1.99	1.98	1.98	2.05	1.97	2.05	1.98	1.98	1.99	1.98
167.5	2.09	2.20	2.11	2.26	2.41	2.26	2.11	2.20	2.09	2.20
170.0	2.36	2.45	2.35	2.57	2.72	2.57	2.35	2.45	2.36	2.45
172.5	2.86	2.90	2.78	2.95	3.11	2.95	2.78	2.90	2.86	2.90
175.0	3.24	3.26	3.14	3.29	3.48	3.29	3.14	3.26	3.24	3.26
177.5	3.50	3.56	3.15	3.44	3.66	3.44	3.15	3.56	3.50	3.56
180.0	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42

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	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24	13878.24
2.5	13849.15	13824.05	13791.25	13824.05	13849.15	13844.15	13851.95
5.0	13744.75	13663.70	13567.90	13663.70	13744.75	13799.70	13840.40
7.5	13560.15	13356.55	13238.30	13356.55	13560.15	13721.25	13813.35
10.0	13287.80	12960.75	12794.60	12960.75	13287.80	13597.50	13720.80
12.5	12919.90	12437.85	12220.90	12437.85	12919.90	13376.80	13532.35
15.0	12415.65	11810.45	11519.05	11810.45	12415.65	13013.90	13200.85
17.5	11737.45	11019.55	10712.65	11019.55	11737.45	12490.90	12723.60
20.0	10920.95	10053.01	9729.97	10053.01	10920.95	11836.90	12131.70
22.5	9954.95	8934.05	8524.03	8934.05	9954.95	11035.90	11395.30
25.0	8845.98	7720.32	7260.86	7720.32	8845.98	10082.59	10464.10
27.5	7576.66	6448.52	6003.69	6448.52	7576.66	8856.96	9213.89
30.0	6125.71	5133.77	4771.37	5133.77	6125.71	7218.11	7455.28
32.5	4479.69	3757.10	3537.71	3757.10	4479.69	5221.26	5315.93
35.0	2857.29	2441.12	2325.84	2441.12	2857.29	3334.49	3418.10
37.5	1582.37	1390.13	1324.21	1390.13	1582.37	1821.79	1977.61
40.0	840.78	736.38	712.38	736.38	840.78	940.45	1167.14
42.5	501.43	451.62	438.29	451.62	501.43	544.24	750.15
45.0	392.86	374.39	368.21	374.39	392.86	405.67	609.16
47.5	360.62	345.14	334.86	345.14	360.62	366.67	564.72
50.0	335.22	315.80	307.44	315.80	335.22	340.44	534.49
52.5	311.35	288.56	272.22	288.56	311.35	316.27	551.03
55.0	286.42	252.01	245.67	252.01	286.42	297.21	562.39
57.5	262.81	231.51	234.49	231.51	262.81	279.70	504.45
60.0	236.46	221.14	233.08	221.14	236.46	254.66	413.33
62.5	202.51	220.93	227.42	220.93	202.51	230.40	369.63
65.0	179.36	213.08	211.82	213.08	179.36	209.98	320.66
67.5	168.21	198.20	198.06	198.20	168.21	183.50	239.61
70.0	167.90	184.87	184.57	184.87	167.90	155.62	168.71
72.5	166.20	170.56	170.67	170.56	166.20	130.23	137.87
75.0	156.66	153.97	142.71	153.97	156.66	108.05	124.13
77.5	145.76	115.20	114.65	115.20	145.76	94.56	116.80
80.0	116.52	113.17	124.89	113.17	116.52	82.80	99.24

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82.5	108.47	130.05	135.56	130.05	108.47	78.14	74.08
85.0	117.76	146.36	146.85	146.36	117.76	75.69	46.07
87.5	148.26	145.57	135.84	145.57	148.26	94.19	27.40
90.0	132.18	120.12	108.72	120.12	132.18	72.01	11.92
92.5	88.94	59.04	56.71	59.04	88.94	68.20	9.97
95.0	26.65	23.51	23.95	23.51	26.65	44.15	18.59
97.5	13.91	17.15	17.93	17.15	13.91	14.26	29.40
100.0	12.59	15.05	16.04	15.05	12.59	9.90	23.79
102.5	12.00	14.46	15.04	14.46	12.00	9.29	17.55
105.0	11.46	13.88	14.73	13.88	11.46	9.62	12.64
107.5	9.83	13.10	13.96	13.10	9.83	9.38	8.62
110.0	8.61	11.11	12.33	11.11	8.61	7.50	6.25
112.5	7.89	9.12	10.19	9.12	7.89	5.73	4.92
115.0	7.51	7.98	8.69	7.98	7.51	4.21	3.68
117.5	6.78	7.69	8.10	7.69	6.78	3.84	2.40
120.0	5.51	7.30	7.85	7.30	5.51	4.51	1.44
122.5	4.70	6.00	6.76	6.00	4.70	2.23	0.60
125.0	5.03	4.74	5.60	4.74	5.03	0.35	0.00
127.5	8.91	4.14	4.82	4.14	8.91	0.00	0.00
130.0	9.09	4.61	4.64	4.61	9.09	0.00	0.00
132.5	4.53	7.52	6.67	7.52	4.53	0.00	0.00
135.0	2.55	9.45	8.68	9.45	2.55	0.00	0.00
137.5	1.50	6.96	8.42	6.96	1.50	0.00	0.00
140.0	0.96	4.05	6.39	4.05	0.96	0.00	0.00
142.5	0.60	2.83	4.00	2.83	0.60	0.00	0.00
145.0	0.38	2.32	3.00	2.32	0.38	0.00	0.00
147.5	0.23	1.91	2.41	1.91	0.23	0.00	0.00
150.0	0.00	1.68	2.05	1.68	0.00	0.00	0.00
152.5	0.17	1.33	1.69	1.33	0.17	0.12	0.15
155.0	0.51	1.00	1.45	1.00	0.51	0.49	0.30
157.5	0.87	0.85	1.23	0.85	0.87	0.87	0.80
160.0	1.22	1.21	1.38	1.21	1.22	1.27	1.22
162.5	1.66	1.64	1.64	1.64	1.66	1.70	1.61
165.0	1.98	2.05	1.97	2.05	1.98	1.98	1.99
167.5	2.11	2.26	2.41	2.26	2.11	2.20	2.09
170.0	2.35	2.57	2.72	2.57	2.35	2.45	2.36
172.5	2.78	2.95	3.11	2.95	2.78	2.90	2.86
175.0	3.14	3.29	3.48	3.29	3.14	3.26	3.24
177.5	3.15	3.44	3.66	3.44	3.15	3.56	3.50
180.0	3.42	3.42	3.42	3.42	3.42	3.42	3.42

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4745.46	N.A.	40.20
0-30	8732.76	N.A.	73.90
0-40	10623.45	N.A.	89.90
0-60	11268.08	N.A.	95.40
0-80	11626.71	N.A.	98.40
0-90	11744.82	N.A.	99.40
10-90	10448.8	N.A.	88.40
20-40	5877.99	N.A.	49.70
20-50	6246.71	N.A.	52.90
40-70	858.10	N.A.	7.30
60-80	358.63	N.A.	3.00
70-80	145.16	N.A.	1.20
80-90	118.11	N.A.	1.00
90-110	57.44	N.A.	0.50
90-120	64.23	N.A.	0.50
90-130	67.82	N.A.	0.60
90-150	71.32	N.A.	0.60
90-180	72.50	N.A.	0.60
110-180	15.05	N.A.	0.10
0-180	11817.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1296.03
10-20	3449.44
20-30	3987.3
30-40	1890.69
40-50	368.72
50-60	275.91
60-70	213.47
70-80	145.16
80-90	118.11
90-100	44.78
100-110	12.67
110-120	6.78
120-130	3.60
130-140	2.75
140-150	0.74
150-160	0.36
160-170	0.53
170-180	0.28

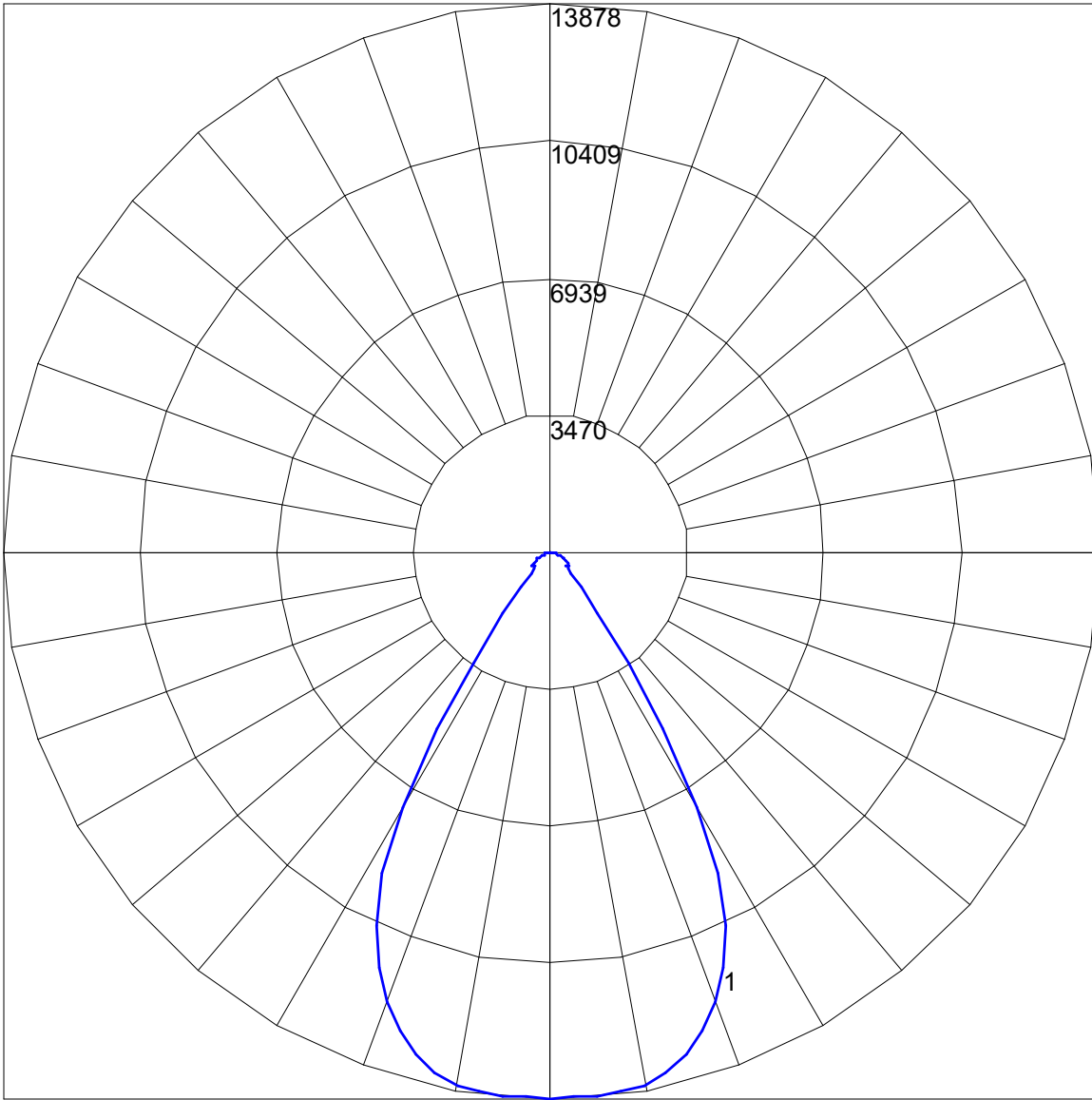
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	113	110	107	105	110	107	105	103	103	101	100	99	98	96	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	91	93	91	89	91	89	87	85
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	89	83	79	94	87	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	64
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	62	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51

POLAR GRAPH



Maximum Candela = 13878.24 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)