

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX12LL40-UNV-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33970.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 12/23/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] APX12LL40-UNV-W
[LUMINAIRE] APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER WIDE OPTICS NO RESISTOR DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 11711 LMS
[TEST DATE] 12/23/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	95.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.98
Spacing Criterion (90-270)	2.26
Spacing Criterion (Diagonal)	1.96
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	8382	7835	8956
55	6377	6449	3426
65	1511	900	2726
75	861	746	634
85	539	535	750

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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	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14
2.5	2478.67	2479.36	2480.69	2476.37	2476.20	2476.37	2480.69	2479.36	2478.67	2479.36
5.0	2575.01	2559.63	2544.78	2520.34	2507.31	2520.34	2544.78	2559.63	2575.01	2559.63
7.5	2713.44	2690.83	2644.54	2589.98	2564.37	2589.98	2644.54	2690.83	2713.44	2690.83
10.0	2880.07	2846.95	2772.03	2683.43	2648.35	2683.43	2772.03	2846.95	2880.07	2846.95
12.5	3068.97	3032.60	2927.49	2800.77	2755.08	2800.77	2927.49	3032.60	3068.97	3032.60
15.0	3291.95	3247.07	3115.22	2947.33	2891.82	2947.33	3115.22	3247.07	3291.95	3247.07
17.5	3528.16	3481.67	3325.35	3130.09	3068.02	3130.09	3325.35	3481.67	3528.16	3481.67
20.0	3760.78	3716.22	3555.76	3336.56	3288.44	3336.56	3555.76	3716.22	3760.78	3716.22
22.5	3942.22	3903.30	3760.07	3572.28	3514.47	3572.28	3760.07	3903.30	3942.22	3903.30
25.0	4021.72	4000.01	3911.74	3800.32	3767.37	3800.32	3911.74	4000.01	4021.72	4000.01
27.5	3968.66	3974.03	3971.64	3979.15	3971.87	3979.15	3971.64	3974.03	3968.66	3974.03
30.0	3842.53	3858.60	3936.30	4080.32	4165.84	4080.32	3936.30	3858.60	3842.53	3858.60
32.5	3734.09	3766.84	3882.97	4090.11	4227.02	4090.11	3882.97	3766.84	3734.09	3766.84
35.0	3673.87	3726.78	3868.62	4093.71	4253.72	4093.71	3868.62	3726.78	3673.87	3726.78
37.5	3630.31	3703.44	3871.29	4124.86	4266.75	4124.86	3871.29	3703.44	3630.31	3703.44
40.0	3586.16	3658.22	3890.83	4170.40	4318.98	4170.40	3890.83	3658.22	3586.16	3658.22
42.5	3498.40	3605.70	3875.67	4199.77	4346.57	4199.77	3875.67	3605.70	3498.40	3605.70
45.0	3352.93	3523.66	3819.48	4148.77	4471.61	4148.77	3819.48	3523.66	3352.93	3523.66
47.5	3117.96	3392.93	3710.44	4226.89	4383.45	4226.89	3710.44	3392.93	3117.96	3392.93
50.0	2788.29	3208.50	3535.28	3905.81	3926.73	3905.81	3535.28	3208.50	2788.29	3208.50
52.5	2468.65	2943.37	3297.52	3425.28	3039.81	3425.28	3297.52	2943.37	2468.65	2943.37
55.0	2161.63	2592.53	2839.72	2480.37	1555.15	2480.37	2839.72	2592.53	2161.63	2592.53
57.5	1772.48	2190.68	2285.22	1038.26	1062.83	1038.26	2285.22	2190.68	1772.48	2190.68
60.0	1212.04	1689.29	1609.98	746.14	1307.23	746.14	1609.98	1689.29	1212.04	1689.29
62.5	677.20	1105.84	742.87	909.00	1564.22	909.00	742.87	1105.84	677.20	1105.84
65.0	404.31	633.61	341.91	1358.29	1076.59	1358.29	341.91	633.61	404.31	633.61
67.5	320.74	390.81	283.79	735.15	683.61	735.15	283.79	390.81	320.74	390.81
70.0	277.38	298.17	294.34	439.37	387.20	439.37	294.34	298.17	277.38	298.17
72.5	206.87	238.78	368.49	275.63	276.59	275.63	368.49	238.78	206.87	238.78
75.0	162.07	165.74	229.42	206.91	205.20	206.91	229.42	165.74	162.07	165.74
77.5	135.28	116.51	190.99	154.96	164.16	154.96	190.99	116.51	135.28	116.51
80.0	107.99	93.65	143.53	146.38	163.69	146.38	143.53	93.65	107.99	93.65
82.5	80.06	81.30	122.43	153.45	165.85	153.45	122.43	81.30	80.06	81.30
85.0	55.51	71.53	121.01	162.71	182.14	162.71	121.01	71.53	55.51	71.53
87.5	36.58	66.78	129.96	156.93	158.58	156.93	129.96	66.78	36.58	66.78
90.0	17.64	50.11	102.51	114.79	113.54	114.79	102.51	50.11	17.64	50.11
92.5	15.48	43.93	63.00	63.36	72.18	63.36	63.00	43.93	15.48	43.93
95.0	20.16	29.90	27.82	44.52	50.62	44.52	27.82	29.90	20.16	29.90
97.5	27.23	17.88	23.95	37.98	44.58	37.98	23.95	17.88	27.23	17.88
100.0	26.46	16.75	22.27	37.38	44.80	37.38	22.27	16.75	26.46	16.75
102.5	23.58	16.54	20.72	26.81	31.25	26.81	20.72	16.54	23.58	16.54
105.0	19.86	16.79	20.40	25.28	27.25	25.28	20.40	16.79	19.86	16.79
107.5	16.72	17.18	19.56	25.03	26.94	25.03	19.56	17.18	16.72	17.18
110.0	14.94	16.53	18.54	23.99	26.48	23.99	18.54	16.53	14.94	16.53
112.5	13.16	15.14	17.67	22.67	25.81	22.67	17.67	15.14	13.16	15.14
115.0	11.88	14.24	17.08	21.88	24.80	21.88	17.08	14.24	11.88	14.24
117.5	11.83	14.66	16.17	20.47	23.66	20.47	16.17	14.66	11.83	14.66
120.0	12.52	16.03	15.28	18.15	21.18	18.15	15.28	16.03	12.52	16.03
122.5	12.81	15.26	14.87	15.59	18.33	15.59	14.87	15.26	12.81	15.26
125.0	12.15	13.28	14.81	13.92	16.06	13.92	14.81	13.28	12.15	13.28
127.5	10.85	11.31	16.48	13.40	14.95	13.40	16.48	11.31	10.85	11.31
130.0	9.42	9.60	18.15	13.60	14.57	13.60	18.15	9.60	9.42	9.60
132.5	7.92	8.15	12.96	15.97	15.67	15.97	12.96	8.15	7.92	8.15

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135.0	6.42	6.53	9.60	17.29	17.74	17.29	9.60	6.53	6.42	6.53
137.5	5.02	5.11	7.14	14.09	16.53	14.09	7.14	5.11	5.02	5.11
140.0	3.81	3.84	5.37	10.00	13.77	10.00	5.37	3.84	3.81	3.84
142.5	2.83	2.82	3.85	7.62	9.61	7.62	3.85	2.82	2.83	2.82
145.0	2.08	1.97	2.52	6.02	7.38	6.02	2.52	1.97	2.08	1.97
147.5	1.44	1.31	1.52	4.69	5.84	4.69	1.52	1.31	1.44	1.31
150.0	0.97	0.80	0.58	3.44	4.46	3.44	0.58	0.80	0.97	0.80
152.5	0.57	0.40	0.37	2.29	3.21	2.29	0.37	0.40	0.57	0.40
155.0	0.27	0.26	0.31	1.18	2.02	1.18	0.31	0.26	0.27	0.26
157.5	0.20	0.21	0.24	0.37	0.97	0.37	0.24	0.21	0.20	0.21
160.0	0.21	0.21	0.21	0.29	0.40	0.29	0.21	0.21	0.21	0.21
162.5	0.20	0.18	0.18	0.23	0.28	0.23	0.18	0.18	0.20	0.18
165.0	0.17	0.15	0.12	0.15	0.16	0.15	0.12	0.15	0.17	0.15
167.5	0.08	0.05	0.04	0.07	0.09	0.07	0.04	0.05	0.08	0.05
170.0	0.05	0.02	0.00	0.02	0.02	0.02	0.00	0.02	0.05	0.02
172.5	0.11	0.06	0.03	0.05	0.06	0.05	0.03	0.06	0.11	0.06
175.0	0.16	0.13	0.08	0.07	0.09	0.07	0.08	0.13	0.16	0.13
177.5	0.24	0.19	0.06	0.08	0.10	0.08	0.06	0.19	0.24	0.19
180.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

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	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14	2458.14
2.5	2480.69	2476.37	2476.20	2476.37	2480.69	2479.36	2478.67
5.0	2544.78	2520.34	2507.31	2520.34	2544.78	2559.63	2575.01
7.5	2644.54	2589.98	2564.37	2589.98	2644.54	2690.83	2713.44
10.0	2772.03	2683.43	2648.35	2683.43	2772.03	2846.95	2880.07
12.5	2927.49	2800.77	2755.08	2800.77	2927.49	3032.60	3068.97
15.0	3115.22	2947.33	2891.82	2947.33	3115.22	3247.07	3291.95
17.5	3325.35	3130.09	3068.02	3130.09	3325.35	3481.67	3528.16
20.0	3555.76	3336.56	3288.44	3336.56	3555.76	3716.22	3760.78
22.5	3760.07	3572.28	3514.47	3572.28	3760.07	3903.30	3942.22
25.0	3911.74	3800.32	3767.37	3800.32	3911.74	4000.01	4021.72
27.5	3971.64	3979.15	3971.87	3979.15	3971.64	3974.03	3968.66
30.0	3936.30	4080.32	4165.84	4080.32	3936.30	3858.60	3842.53
32.5	3882.97	4090.11	4227.02	4090.11	3882.97	3766.84	3734.09
35.0	3868.62	4093.71	4253.72	4093.71	3868.62	3726.78	3673.87
37.5	3871.29	4124.86	4266.75	4124.86	3871.29	3703.44	3630.31
40.0	3890.83	4170.40	4318.98	4170.40	3890.83	3658.22	3586.16
42.5	3875.67	4199.77	4346.57	4199.77	3875.67	3605.70	3498.40
45.0	3819.48	4148.77	4471.61	4148.77	3819.48	3523.66	3352.93
47.5	3710.44	4226.89	4383.45	4226.89	3710.44	3392.93	3117.96
50.0	3535.28	3905.81	3926.73	3905.81	3535.28	3208.50	2788.29
52.5	3297.52	3425.28	3039.81	3425.28	3297.52	2943.37	2468.65
55.0	2839.72	2480.37	1555.15	2480.37	2839.72	2592.53	2161.63
57.5	2285.22	1038.26	1062.83	1038.26	2285.22	2190.68	1772.48
60.0	1609.98	746.14	1307.23	746.14	1609.98	1689.29	1212.04
62.5	742.87	909.00	1564.22	909.00	742.87	1105.84	677.20
65.0	341.91	1358.29	1076.59	1358.29	341.91	633.61	404.31
67.5	283.79	735.15	683.61	735.15	283.79	390.81	320.74
70.0	294.34	439.37	387.20	439.37	294.34	298.17	277.38
72.5	368.49	275.63	276.59	275.63	368.49	238.78	206.87
75.0	229.42	206.91	205.20	206.91	229.42	165.74	162.07
77.5	190.99	154.96	164.16	154.96	190.99	116.51	135.28
80.0	143.53	146.38	163.69	146.38	143.53	93.65	107.99

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82.5	122.43	153.45	165.85	153.45	122.43	81.30	80.06
85.0	121.01	162.71	182.14	162.71	121.01	71.53	55.51
87.5	129.96	156.93	158.58	156.93	129.96	66.78	36.58
90.0	102.51	114.79	113.54	114.79	102.51	50.11	17.64
92.5	63.00	63.36	72.18	63.36	63.00	43.93	15.48
95.0	27.82	44.52	50.62	44.52	27.82	29.90	20.16
97.5	23.95	37.98	44.58	37.98	23.95	17.88	27.23
100.0	22.27	37.38	44.80	37.38	22.27	16.75	26.46
102.5	20.72	26.81	31.25	26.81	20.72	16.54	23.58
105.0	20.40	25.28	27.25	25.28	20.40	16.79	19.86
107.5	19.56	25.03	26.94	25.03	19.56	17.18	16.72
110.0	18.54	23.99	26.48	23.99	18.54	16.53	14.94
112.5	17.67	22.67	25.81	22.67	17.67	15.14	13.16
115.0	17.08	21.88	24.80	21.88	17.08	14.24	11.88
117.5	16.17	20.47	23.66	20.47	16.17	14.66	11.83
120.0	15.28	18.15	21.18	18.15	15.28	16.03	12.52
122.5	14.87	15.59	18.33	15.59	14.87	15.26	12.81
125.0	14.81	13.92	16.06	13.92	14.81	13.28	12.15
127.5	16.48	13.40	14.95	13.40	16.48	11.31	10.85
130.0	18.15	13.60	14.57	13.60	18.15	9.60	9.42
132.5	12.96	15.97	15.67	15.97	12.96	8.15	7.92
135.0	9.60	17.29	17.74	17.29	9.60	6.53	6.42
137.5	7.14	14.09	16.53	14.09	7.14	5.11	5.02
140.0	5.37	10.00	13.77	10.00	5.37	3.84	3.81
142.5	3.85	7.62	9.61	7.62	3.85	2.82	2.83
145.0	2.52	6.02	7.38	6.02	2.52	1.97	2.08
147.5	1.52	4.69	5.84	4.69	1.52	1.31	1.44
150.0	0.58	3.44	4.46	3.44	0.58	0.80	0.97
152.5	0.37	2.29	3.21	2.29	0.37	0.40	0.57
155.0	0.31	1.18	2.02	1.18	0.31	0.26	0.27
157.5	0.24	0.37	0.97	0.37	0.24	0.21	0.20
160.0	0.21	0.29	0.40	0.29	0.21	0.21	0.21
162.5	0.18	0.23	0.28	0.23	0.18	0.18	0.20
165.0	0.12	0.15	0.16	0.15	0.12	0.15	0.17
167.5	0.04	0.07	0.09	0.07	0.04	0.05	0.08
170.0	0.00	0.02	0.02	0.02	0.00	0.02	0.05
172.5	0.03	0.05	0.06	0.05	0.03	0.06	0.11
175.0	0.08	0.07	0.09	0.07	0.08	0.13	0.16
177.5	0.06	0.08	0.10	0.08	0.06	0.19	0.24
180.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1145.23	N.A.	9.80
0-30	2929.64	N.A.	25.00
0-40	5394.65	N.A.	46.10
0-60	10493.9	N.A.	89.60
0-80	11472.65	N.A.	98.00
0-90	11597.52	N.A.	99.00
10-90	11347.66	N.A.	96.90
20-40	4249.42	N.A.	36.30
20-50	7194.81	N.A.	61.40
40-70	5849.84	N.A.	50.00
60-80	978.75	N.A.	8.40
70-80	228.16	N.A.	1.90
80-90	124.86	N.A.	1.10
90-110	70.74	N.A.	0.60
90-120	88.67	N.A.	0.80
90-130	101.67	N.A.	0.90
90-150	112.67	N.A.	1.00
90-180	113.13	N.A.	1.00
110-180	42.39	N.A.	0.40
0-180	11710.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	249.85
10-20	895.37
20-30	1784.41
30-40	2465.01
40-50	2945.39
50-60	2153.87
60-70	750.59
70-80	228.16
80-90	124.86
90-100	47.11
100-110	23.63
110-120	17.92
120-130	13.00
130-140	8.40
140-150	2.60
150-160	0.41
160-170	0.04
170-180	0.01

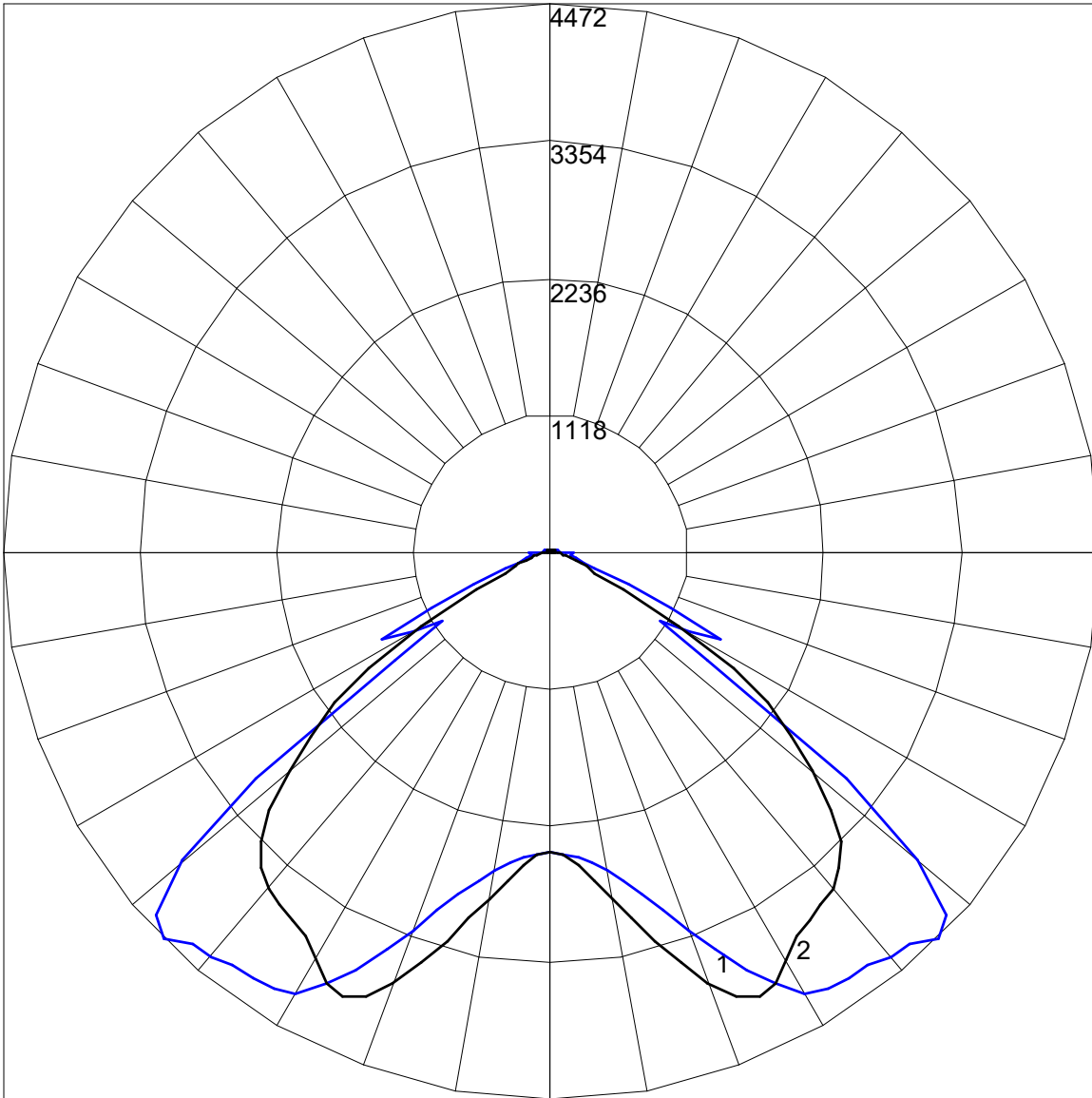
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	52	44	38	64	52	43	38	50	43	37	48	42	37	47	41	37	35
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4471.61 Located At Horizontal Angle = 90, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)