

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX16LL40-UNV-A.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33751.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 10/30/14
[MANUFACTURER] SIGNIFY DAY-BRITE - CFI
[LUMINAIRE] APX16LL40-UNV-A
[LUMINAIRE] APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS AISLE OPTICS DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 15779 LMS
[TEST DATE] 10/30/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	123.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	2.42
Spacing Criterion (Diagonal)	2.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4415	11224	15673
55	1801	11485	10593
65	1502	2585	10093
75	1043	1153	3619
85	707	771	1378

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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	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81
2.5	3529.74	3537.41	3566.14	3591.59	3624.77	3591.59	3566.14	3537.41	3529.74	3537.41
5.0	3519.40	3538.04	3596.86	3657.87	3696.41	3657.87	3596.86	3538.04	3519.40	3538.04
7.5	3499.50	3538.01	3647.61	3760.25	3817.45	3760.25	3647.61	3538.01	3499.50	3538.01
10.0	3469.53	3539.80	3719.87	3900.07	3974.30	3900.07	3719.87	3539.80	3469.53	3539.80
12.5	3429.69	3540.64	3811.03	4059.10	4163.10	4059.10	3811.03	3540.64	3429.69	3540.64
15.0	3381.06	3537.96	3909.17	4240.53	4365.65	4240.53	3909.17	3537.96	3381.06	3537.96
17.5	3319.79	3533.80	4020.24	4450.02	4614.26	4450.02	4020.24	3533.80	3319.79	3533.80
20.0	3247.73	3519.03	4140.18	4676.68	4881.51	4676.68	4140.18	3519.03	3247.73	3519.03
22.5	3159.59	3503.43	4266.40	4909.33	5116.43	4909.33	4266.40	3503.43	3159.59	3503.43
25.0	3061.68	3480.64	4402.40	5134.98	5370.65	5134.98	4402.40	3480.64	3061.68	3480.64
27.5	2944.74	3448.72	4518.19	5372.66	5630.69	5372.66	4518.19	3448.72	2944.74	3448.72
30.0	2809.36	3401.59	4638.48	5633.86	5921.32	5633.86	4638.48	3401.59	2809.36	3401.59
32.5	2652.45	3341.56	4763.56	5889.45	6205.02	5889.45	4763.56	3341.56	2652.45	3341.56
35.0	2476.09	3256.44	4880.41	6129.05	6453.16	6129.05	4880.41	3256.44	2476.09	3256.44
37.5	2279.59	3150.24	4979.30	6343.36	6694.91	6343.36	4979.30	3150.24	2279.59	3150.24
40.0	2074.89	3018.31	5058.36	6534.50	6864.80	6534.50	5058.36	3018.31	2074.89	3018.31
42.5	1855.17	2877.66	5114.18	6676.23	7127.69	6676.23	5114.18	2877.66	1855.17	2877.66
45.0	1627.01	2730.87	5128.89	6864.76	7383.38	6864.76	5128.89	2730.87	1627.01	2730.87
47.5	1398.37	2578.05	5079.56	7135.08	7359.29	7135.08	5079.56	2578.05	1398.37	2578.05
50.0	1122.92	2404.66	5007.20	6875.16	6841.35	6875.16	5007.20	2404.66	1122.92	2404.66
52.5	807.59	2098.14	5022.73	6172.58	6110.17	6172.58	5022.73	2098.14	807.59	2098.14
55.0	562.44	1520.95	4763.53	5068.17	4566.69	5068.17	4763.53	1520.95	562.44	1520.95
57.5	476.37	899.32	4314.27	3678.02	4487.55	3678.02	4314.27	899.32	476.37	899.32
60.0	440.19	585.64	3336.61	3007.13	3691.93	3007.13	3336.61	585.64	440.19	585.64
62.5	405.90	481.07	1865.94	2686.02	4494.89	2686.02	1865.94	481.07	405.90	481.07
65.0	370.43	410.69	930.40	3082.78	3815.28	3082.78	930.40	410.69	370.43	410.69
67.5	332.21	350.25	581.04	2735.16	3541.30	2735.16	581.04	350.25	332.21	350.25
70.0	286.66	290.08	510.90	1852.15	2488.02	1852.15	510.90	290.08	286.66	290.08
72.5	231.60	233.30	449.27	1255.55	1776.19	1255.55	449.27	233.30	231.60	233.30
75.0	180.78	185.39	339.18	740.57	1134.31	740.57	339.18	185.39	180.78	185.39
77.5	141.50	148.67	267.56	446.36	667.97	446.36	267.56	148.67	141.50	148.67
80.0	113.44	128.20	198.33	347.87	459.97	347.87	198.33	128.20	113.44	128.20
82.5	89.89	119.80	170.95	318.81	368.55	318.81	170.95	119.80	89.89	119.80
85.0	67.03	96.93	169.32	314.36	329.88	314.36	169.32	96.93	67.03	96.93
87.5	45.63	83.49	174.36	254.94	272.59	254.94	83.49	45.63	45.63	83.49
90.0	21.88	66.30	131.81	185.14	210.07	185.14	66.30	21.88	21.88	66.30
92.5	19.24	56.03	81.81	121.11	153.18	121.11	81.81	56.03	19.24	56.03
95.0	26.38	37.49	46.37	105.22	135.77	105.22	46.37	37.49	26.38	37.49
97.5	31.90	27.00	39.66	98.32	121.73	98.32	39.66	27.00	31.90	27.00
100.0	28.51	25.91	37.95	85.32	111.66	85.32	37.95	25.91	28.51	25.91
102.5	25.24	25.02	36.59	65.25	85.62	65.25	36.59	25.02	25.24	25.02
105.0	22.03	24.48	36.26	55.09	67.26	55.09	36.26	24.48	22.03	24.48
107.5	19.46	23.75	35.72	53.52	62.28	53.52	35.72	23.75	19.46	23.75
110.0	17.17	22.20	34.64	52.28	60.84	52.28	34.64	22.20	17.17	22.20
112.5	14.96	20.25	33.69	50.02	57.60	50.02	33.69	20.25	14.96	20.25
115.0	12.80	18.57	32.27	47.40	55.19	47.40	32.27	18.57	12.80	18.57
117.5	11.23	17.47	30.73	44.24	52.27	44.24	30.73	17.47	11.23	17.47
120.0	10.07	17.77	29.26	40.03	47.84	40.03	29.26	17.77	10.07	17.77
122.5	9.17	17.51	28.07	35.91	43.17	35.91	28.07	17.51	9.17	17.51
125.0	8.51	15.09	27.37	32.12	38.95	32.12	27.37	15.09	8.51	15.09
127.5	8.02	12.40	28.94	30.48	35.64	30.48	28.94	12.40	8.02	12.40
130.0	7.40	10.28	31.64	30.82	34.35	30.82	31.64	10.28	7.40	10.28
132.5	6.71	8.62	27.97	36.10	37.52	36.10	27.97	8.62	6.71	8.62

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135.0	5.95	6.89	20.08	43.49	54.48	43.49	20.08	6.89	5.95	6.89
137.5	5.13	5.76	15.22	43.60	38.94	43.60	15.22	5.76	5.13	5.76
140.0	4.41	4.69	11.60	28.10	57.20	28.10	11.60	4.69	4.41	4.69
142.5	3.73	3.83	8.82	19.97	27.49	19.97	8.82	3.83	3.73	3.83
145.0	3.24	3.08	6.58	15.15	19.79	15.15	6.58	3.08	3.24	3.08
147.5	2.74	2.50	4.79	11.99	14.92	11.99	4.79	2.50	2.74	2.50
150.0	2.38	2.08	3.10	9.36	11.72	9.36	3.10	2.08	2.38	2.08
152.5	2.03	1.76	2.30	7.02	9.00	7.02	2.30	1.76	2.03	1.76
155.0	1.74	1.67	2.19	4.77	6.52	4.77	2.19	1.67	1.74	1.67
157.5	1.81	1.74	2.09	3.15	4.49	3.15	2.09	1.74	1.81	1.74
160.0	1.86	1.78	1.97	2.51	3.08	2.51	1.97	1.78	1.86	1.78
162.5	1.93	1.82	1.92	2.26	2.46	2.26	1.92	1.82	1.93	1.82
165.0	1.93	1.89	1.84	2.06	2.16	2.06	1.84	1.89	1.93	1.89
167.5	1.90	1.78	1.76	1.88	1.93	1.88	1.76	1.78	1.90	1.78
170.0	1.86	1.78	1.73	1.79	1.80	1.79	1.73	1.78	1.86	1.78
172.5	2.01	1.85	1.77	1.77	1.79	1.77	1.77	1.85	2.01	1.85
175.0	2.07	1.97	1.84	1.81	1.79	1.81	1.84	1.97	2.07	1.97
177.5	2.17	2.05	1.83	1.75	1.80	1.75	1.83	2.05	2.17	2.05
180.0	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92

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	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81	3557.81
2.5	3566.14	3591.59	3624.77	3591.59	3566.14	3537.41	3529.74
5.0	3596.86	3657.87	3696.41	3657.87	3596.86	3538.04	3519.40
7.5	3647.61	3760.25	3817.45	3760.25	3647.61	3538.01	3499.50
10.0	3719.87	3900.07	3974.30	3900.07	3719.87	3539.80	3469.53
12.5	3811.03	4059.10	4163.10	4059.10	3811.03	3540.64	3429.69
15.0	3909.17	4240.53	4365.65	4240.53	3909.17	3537.96	3381.06
17.5	4020.24	4450.02	4614.26	4450.02	4020.24	3533.80	3319.79
20.0	4140.18	4676.68	4881.51	4676.68	4140.18	3519.03	3247.73
22.5	4266.40	4909.33	5116.43	4909.33	4266.40	3503.43	3159.59
25.0	4402.40	5134.98	5370.65	5134.98	4402.40	3480.64	3061.68
27.5	4518.19	5372.66	5630.69	5372.66	4518.19	3448.72	2944.74
30.0	4638.48	5633.86	5921.32	5633.86	4638.48	3401.59	2809.36
32.5	4763.56	5889.45	6205.02	5889.45	4763.56	3341.56	2652.45
35.0	4880.41	6129.05	6453.16	6129.05	4880.41	3256.44	2476.09
37.5	4979.30	6343.36	6694.91	6343.36	4979.30	3150.24	2279.59
40.0	5058.36	6534.50	6864.80	6534.50	5058.36	3018.31	2074.89
42.5	5114.18	6676.23	7127.69	6676.23	5114.18	2877.66	1855.17
45.0	5128.89	6864.76	7383.38	6864.76	5128.89	2730.87	1627.01
47.5	5079.56	7135.08	7359.29	7135.08	5079.56	2578.05	1398.37
50.0	5007.20	6875.16	6841.35	6875.16	5007.20	2404.66	1122.92
52.5	5022.73	6172.58	6110.17	6172.58	5022.73	2098.14	807.59
55.0	4763.53	5068.17	4566.69	5068.17	4763.53	1520.95	562.44
57.5	4314.27	3678.02	4487.55	3678.02	4314.27	899.32	476.37
60.0	3336.61	3007.13	3691.93	3007.13	3336.61	585.64	440.19
62.5	1865.94	2686.02	4494.89	2686.02	1865.94	481.07	405.90
65.0	930.40	3082.78	3815.28	3082.78	930.40	410.69	370.43
67.5	581.04	2735.16	3541.30	2735.16	581.04	350.25	332.21
70.0	510.90	1852.15	2488.02	1852.15	510.90	290.08	286.66
72.5	449.27	1255.55	1776.19	1255.55	449.27	233.30	231.60
75.0	339.18	740.57	1134.31	740.57	339.18	185.39	180.78
77.5	267.56	446.36	667.97	446.36	267.56	148.67	141.50
80.0	198.33	347.87	459.97	347.87	198.33	128.20	113.44

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CANDELA TABULATION - (Cont.)

82.5	170.95	318.81	368.55	318.81	170.95	119.80	89.89
85.0	169.32	314.36	329.88	314.36	169.32	96.93	67.03
87.5	174.36	254.94	272.59	254.94	174.36	83.49	45.63
90.0	131.81	185.14	210.07	185.14	131.81	66.30	21.88
92.5	81.81	121.11	153.18	121.11	81.81	56.03	19.24
95.0	46.37	105.22	135.77	105.22	46.37	37.49	26.38
97.5	39.66	98.32	121.73	98.32	39.66	27.00	31.90
100.0	37.95	85.32	111.66	85.32	37.95	25.91	28.51
102.5	36.59	65.25	85.62	65.25	36.59	25.02	25.24
105.0	36.26	55.09	67.26	55.09	36.26	24.48	22.03
107.5	35.72	53.52	62.28	53.52	35.72	23.75	19.46
110.0	34.64	52.28	60.84	52.28	34.64	22.20	17.17
112.5	33.69	50.02	57.60	50.02	33.69	20.25	14.96
115.0	32.27	47.40	55.19	47.40	32.27	18.57	12.80
117.5	30.73	44.24	52.27	44.24	30.73	17.47	11.23
120.0	29.26	40.03	47.84	40.03	29.26	17.77	10.07
122.5	28.07	35.91	43.17	35.91	28.07	17.51	9.17
125.0	27.37	32.12	38.95	32.12	27.37	15.09	8.51
127.5	28.94	30.48	35.64	30.48	28.94	12.40	8.02
130.0	31.64	30.82	34.35	30.82	31.64	10.28	7.40
132.5	27.97	36.10	37.52	36.10	27.97	8.62	6.71
135.0	20.08	43.49	54.48	43.49	20.08	6.89	5.95
137.5	15.22	43.60	38.94	43.60	15.22	5.76	5.13
140.0	11.60	28.10	57.20	28.10	11.60	4.69	4.41
142.5	8.82	19.97	27.49	19.97	8.82	3.83	3.73
145.0	6.58	15.15	19.79	15.15	6.58	3.08	3.24
147.5	4.79	11.99	14.92	11.99	4.79	2.50	2.74
150.0	3.10	9.36	11.72	9.36	3.10	2.08	2.38
152.5	2.30	7.02	9.00	7.02	2.30	1.76	2.03
155.0	2.19	4.77	6.52	4.77	2.19	1.67	1.74
157.5	2.09	3.15	4.49	3.15	2.09	1.74	1.81
160.0	1.97	2.51	3.08	2.51	1.97	1.78	1.86
162.5	1.92	2.26	2.46	2.26	1.92	1.82	1.93
165.0	1.84	2.06	2.16	2.06	1.84	1.89	1.93
167.5	1.76	1.88	1.93	1.88	1.76	1.78	1.90
170.0	1.73	1.79	1.80	1.79	1.73	1.78	1.86
172.5	1.77	1.77	1.79	1.77	1.77	1.85	2.01
175.0	1.84	1.81	1.79	1.81	1.84	1.97	2.07
177.5	1.83	1.75	1.80	1.75	1.83	2.05	2.17
180.0	1.92	1.92	1.92	1.92	1.92	1.92	1.92

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1458.14	N.A.	9.20
0-30	3456.83	N.A.	21.90
0-40	6391.95	N.A.	40.50
0-60	13181.48	N.A.	83.50
0-80	15362.62	N.A.	97.40
0-90	15568.42	N.A.	98.70
10-90	15220.95	N.A.	96.50
20-40	4933.81	N.A.	31.30
20-50	8622.61	N.A.	54.60
40-70	8402.99	N.A.	53.30
60-80	2181.14	N.A.	13.80
70-80	567.68	N.A.	3.60
80-90	205.80	N.A.	1.30
90-110	128.07	N.A.	0.80
90-120	160.92	N.A.	1.00
90-130	183.65	N.A.	1.20
90-150	207.91	N.A.	1.30
90-180	210.27	N.A.	1.30
110-180	82.20	N.A.	0.50
0-180	15778.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	347.48
10-20	1110.66
20-30	1998.69
30-40	2935.12
40-50	3688.79
50-60	3100.74
60-70	1613.46
70-80	567.68
80-90	205.80
90-100	83.02
100-110	45.04
110-120	32.85
120-130	22.73
130-140	17.79
140-150	6.47
150-160	1.62
160-170	0.56
170-180	0.18

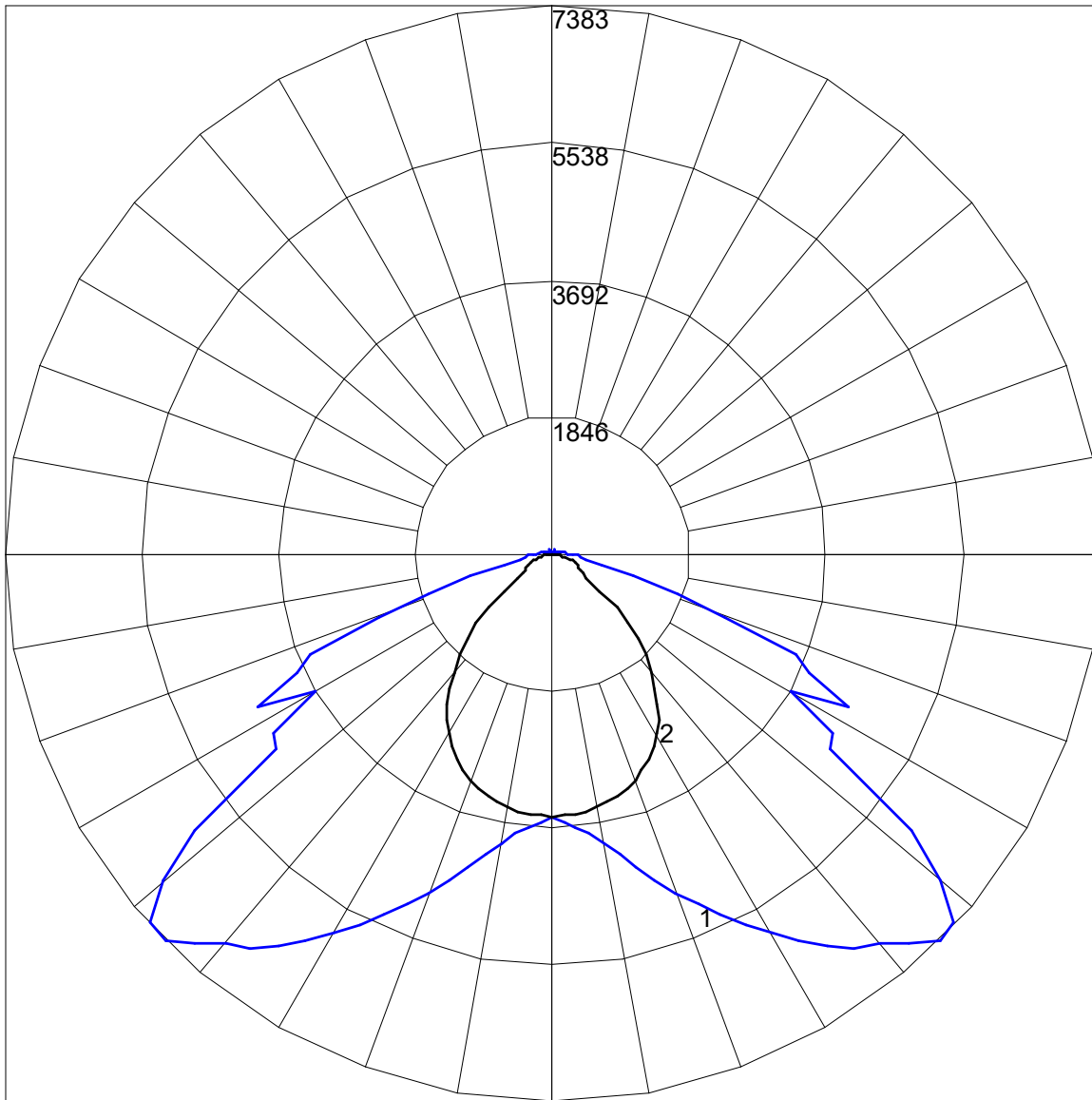
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	99
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	61	56	52	50
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	32
8	59	45	37	31	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

POLAR GRAPH



Maximum Candela = 7383.38 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)