

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX16LL40-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33672.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 10/17/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] APX16LL40-UNV
[LUMINAIRE] APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS 4.7K RESISTORS DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 16171 LMS
[TEST DATE] 10/17/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16171
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	123.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
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	10259	8413	8453
55	9411	7522	5018
65	7856	3319	5822
75	5153	4309	3507
85	2040	2154	2287

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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	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10
2.5	5353.24	5361.58	5374.68	5372.74	5370.98	5372.74	5374.68	5361.58	5353.24	5361.58
5.0	5344.36	5347.73	5365.84	5372.22	5355.47	5372.22	5365.84	5347.73	5344.36	5347.73
7.5	5321.92	5328.23	5349.28	5356.06	5344.75	5356.06	5349.28	5328.23	5321.92	5328.23
10.0	5288.10	5303.50	5318.06	5338.36	5318.44	5338.36	5318.06	5303.50	5288.10	5303.50
12.5	5246.89	5265.26	5289.28	5293.80	5281.64	5293.80	5289.28	5265.26	5246.89	5265.26
15.0	5201.10	5220.34	5242.26	5250.99	5234.66	5250.99	5242.26	5220.34	5201.10	5220.34
17.5	5137.28	5164.01	5179.68	5186.37	5175.20	5186.37	5179.68	5164.01	5137.28	5164.01
20.0	5065.14	5091.33	5109.91	5106.62	5102.40	5106.62	5109.91	5091.33	5065.14	5091.33
22.5	4985.11	5008.17	5018.24	5024.49	5011.13	5024.49	5018.24	5008.17	4985.11	5008.17
25.0	4893.18	4919.06	4929.34	4921.72	4912.39	4921.72	4929.34	4919.06	4893.18	4919.06
27.5	4788.60	4820.43	4820.40	4816.04	4804.24	4816.04	4820.40	4820.43	4788.60	4820.43
30.0	4677.08	4705.51	4706.86	4705.68	4694.72	4705.68	4706.86	4705.51	4677.08	4705.51
32.5	4558.67	4591.95	4583.87	4584.67	4579.17	4584.67	4583.87	4591.95	4558.67	4591.95
35.0	4425.98	4452.87	4452.55	4460.83	4457.65	4460.83	4452.55	4452.87	4425.98	4452.87
37.5	4277.18	4308.48	4312.07	4328.50	4320.51	4328.50	4312.07	4308.48	4277.18	4308.48
40.0	4127.49	4150.00	4169.47	4178.57	4152.74	4178.57	4169.47	4150.00	4127.49	4150.00
42.5	3974.55	3993.93	4019.85	4007.34	4035.69	4007.34	4019.85	3993.93	3974.55	3993.93
45.0	3780.43	3815.07	3844.43	3955.92	3982.18	3955.92	3844.43	3815.07	3780.43	3815.07
47.5	3596.47	3627.16	3655.88	3801.85	3799.96	3801.85	3655.88	3627.16	3596.47	3627.16
50.0	3377.57	3413.94	3526.56	3604.88	3318.21	3604.88	3526.56	3413.94	3377.57	3413.94
52.5	3177.27	3207.65	3362.93	3071.78	2750.12	3071.78	3362.93	3207.65	3177.27	3207.65
55.0	2938.90	2971.95	3119.64	2395.81	2163.23	2395.81	3119.64	2971.95	2938.90	2971.95
57.5	2704.15	2754.62	2837.82	1875.64	1968.33	1875.64	2837.82	2754.62	2704.15	2754.62
60.0	2454.90	2518.11	2250.77	1712.65	1906.44	1712.65	2250.77	2518.11	2454.90	2518.11
62.5	2199.69	2304.16	1703.13	1994.64	2204.01	1994.64	1703.13	2304.16	2199.69	2304.16
65.0	1937.04	2038.78	1194.59	2077.97	2200.86	2077.97	1194.59	2038.78	1937.04	2038.78
67.5	1668.55	1757.55	1171.84	2021.18	1975.19	2021.18	1171.84	1757.55	1668.55	1757.55
70.0	1402.92	1482.72	1425.77	1672.12	1709.14	1672.12	1425.77	1482.72	1402.92	1482.72
72.5	1142.24	1089.70	1458.52	1493.71	1429.95	1493.71	1458.52	1089.70	1142.24	1089.70
75.0	893.23	674.50	1267.59	1150.28	1099.41	1150.28	1267.59	674.50	893.23	674.50
77.5	667.03	479.58	1069.69	827.93	791.95	827.93	1069.69	479.58	667.03	479.58
80.0	472.36	376.64	648.25	684.78	759.73	684.78	648.25	376.64	472.36	376.64
82.5	314.51	355.77	515.44	635.89	667.02	635.89	515.44	355.77	314.51	355.77
85.0	193.51	349.71	472.78	543.28	547.56	543.28	472.78	349.71	193.51	349.71
87.5	115.98	248.35	397.27	391.16	368.73	391.16	397.27	248.35	115.98	248.35
90.0	55.73	167.46	221.14	183.82	195.72	183.82	221.14	167.46	55.73	167.46
92.5	48.41	125.98	93.50	95.26	104.76	95.26	93.50	125.98	48.41	125.98
95.0	69.68	64.91	64.55	86.36	94.10	86.36	64.55	64.91	69.68	64.91
97.5	102.21	51.18	72.22	89.20	90.68	89.20	72.22	51.18	102.21	51.18
100.0	104.97	51.96	71.21	74.13	79.15	74.13	71.21	51.96	104.97	51.96
102.5	98.84	47.18	52.21	59.68	65.02	59.68	52.21	47.18	98.84	47.18
105.0	87.60	51.58	48.43	53.01	55.01	53.01	48.43	51.58	87.60	51.58
107.5	75.05	57.37	45.96	51.15	52.47	51.15	45.96	57.37	75.05	57.37
110.0	63.45	54.91	44.05	48.30	50.56	48.30	44.05	54.91	63.45	54.91
112.5	53.43	49.06	42.23	46.36	48.60	46.36	42.23	49.06	53.43	49.06
115.0	44.83	43.10	41.16	43.74	45.99	43.74	41.16	43.10	44.83	43.10
117.5	37.93	40.91	38.61	40.50	43.24	40.50	38.61	40.91	37.93	40.91
120.0	32.05	50.02	34.96	37.08	40.16	37.08	34.96	50.02	32.05	50.02
122.5	27.06	31.03	33.12	33.00	36.14	33.00	33.12	31.03	27.06	31.03
125.0	22.76	24.71	39.52	29.99	32.43	29.99	39.52	24.71	22.76	24.71
127.5	18.89	20.29	88.79	30.52	30.93	30.52	88.79	20.29	18.89	20.29
130.0	15.80	16.08	56.15	42.89	36.02	42.89	56.15	16.08	15.80	16.08
132.5	13.23	13.11	23.96	80.93	73.04	80.93	23.96	13.11	13.23	13.11

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV.IES

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135.0	10.98	10.62	20.58	76.00	59.30	76.00	20.58	10.62	10.98	10.62
137.5	8.76	8.87	15.38	28.44	69.42	28.44	15.38	8.87	8.76	8.87
140.0	7.09	7.10	10.82	22.13	27.09	22.13	10.82	7.10	7.09	7.10
142.5	5.69	5.67	7.91	16.64	20.56	16.64	7.91	5.67	5.69	5.67
145.0	4.66	4.41	5.75	12.42	15.69	12.42	5.75	4.41	4.66	4.41
147.5	3.66	3.53	4.08	9.72	11.83	9.72	4.08	3.53	3.66	3.53
150.0	2.95	2.89	2.73	7.46	9.01	7.46	2.73	2.89	2.95	2.89
152.5	2.23	2.11	2.60	5.45	7.05	5.45	2.60	2.11	2.23	2.11
155.0	1.83	2.00	2.46	3.56	4.84	3.56	2.46	2.00	1.83	2.00
157.5	1.65	1.94	2.28	2.96	3.64	2.96	2.28	1.94	1.65	1.94
160.0	1.76	1.88	2.20	2.72	3.01	2.72	2.20	1.88	1.76	1.88
162.5	1.78	1.76	2.04	2.41	2.42	2.41	2.04	1.76	1.78	1.76
165.0	1.70	1.81	1.83	2.27	2.09	2.27	1.83	1.81	1.70	1.81
167.5	1.67	1.74	1.84	2.03	2.07	2.03	1.84	1.74	1.67	1.74
170.0	1.52	1.90	1.65	1.75	1.92	1.75	1.65	1.90	1.52	1.90
172.5	1.80	1.94	1.76	1.83	2.01	1.83	1.76	1.94	1.80	1.94
175.0	1.87	1.88	2.00	1.87	1.96	1.87	2.00	1.88	1.87	1.88
177.5	1.91	1.93	1.73	1.83	1.94	1.83	1.73	1.93	1.91	1.93
180.0	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91

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	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10	5374.10
2.5	5374.68	5372.74	5370.98	5372.74	5374.68	5361.58	5353.24
5.0	5365.84	5372.22	5355.47	5372.22	5365.84	5347.73	5344.36
7.5	5349.28	5356.06	5344.75	5356.06	5349.28	5328.23	5321.92
10.0	5318.06	5338.36	5318.44	5338.36	5318.06	5303.50	5288.10
12.5	5289.28	5293.80	5281.64	5293.80	5289.28	5265.26	5246.89
15.0	5242.26	5250.99	5234.66	5250.99	5242.26	5220.34	5201.10
17.5	5179.68	5186.37	5175.20	5186.37	5179.68	5164.01	5137.28
20.0	5109.91	5106.62	5102.40	5106.62	5109.91	5091.33	5065.14
22.5	5018.24	5024.49	5011.13	5024.49	5018.24	5008.17	4985.11
25.0	4929.34	4921.72	4912.39	4921.72	4929.34	4919.06	4893.18
27.5	4820.40	4816.04	4804.24	4816.04	4820.40	4820.43	4788.60
30.0	4706.86	4705.68	4694.72	4705.68	4706.86	4705.51	4677.08
32.5	4583.87	4584.67	4579.17	4584.67	4583.87	4591.95	4558.67
35.0	4452.55	4460.83	4457.65	4460.83	4452.55	4452.87	4425.98
37.5	4312.07	4328.50	4320.51	4328.50	4312.07	4308.48	4277.18
40.0	4169.47	4178.57	4152.74	4178.57	4169.47	4150.00	4127.49
42.5	4019.85	4007.34	4035.69	4007.34	4019.85	3993.93	3974.55
45.0	3844.43	3955.92	3982.18	3955.92	3844.43	3815.07	3780.43
47.5	3655.88	3801.85	3799.96	3801.85	3655.88	3627.16	3596.47
50.0	3526.56	3604.88	3318.21	3604.88	3526.56	3413.94	3377.57
52.5	3362.93	3071.78	2750.12	3071.78	3362.93	3207.65	3177.27
55.0	3119.64	2395.81	2163.23	2395.81	3119.64	2971.95	2938.90
57.5	2837.82	1875.64	1968.33	1875.64	2837.82	2754.62	2704.15
60.0	2250.77	1712.65	1906.44	1712.65	2250.77	2518.11	2454.90
62.5	1703.13	1994.64	2204.01	1994.64	1703.13	2304.16	2199.69
65.0	1194.59	2077.97	2200.86	2077.97	1194.59	2038.78	1937.04
67.5	1171.84	2021.18	1975.19	2021.18	1171.84	1757.55	1668.55
70.0	1425.77	1672.12	1709.14	1672.12	1425.77	1482.72	1402.92
72.5	1458.52	1493.71	1429.95	1493.71	1458.52	1089.70	1142.24
75.0	1267.59	1150.28	1099.41	1150.28	1267.59	674.50	893.23
77.5	1069.69	827.93	791.95	827.93	1069.69	479.58	667.03
80.0	648.25	684.78	759.73	684.78	648.25	376.64	472.36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV.IES

CANDELA TABULATION - (Cont.)

82.5	515.44	635.89	667.02	635.89	515.44	355.77	314.51
85.0	472.78	543.28	547.56	543.28	472.78	349.71	193.51
87.5	397.27	391.16	368.73	391.16	397.27	248.35	115.98
90.0	221.14	183.82	195.72	183.82	221.14	167.46	55.73
92.5	93.50	95.26	104.76	95.26	93.50	125.98	48.41
95.0	64.55	86.36	94.10	86.36	64.55	64.91	69.68
97.5	72.22	89.20	90.68	89.20	72.22	51.18	102.21
100.0	71.21	74.13	79.15	74.13	71.21	51.96	104.97
102.5	52.21	59.68	65.02	59.68	52.21	47.18	98.84
105.0	48.43	53.01	55.01	53.01	48.43	51.58	87.60
107.5	45.96	51.15	52.47	51.15	45.96	57.37	75.05
110.0	44.05	48.30	50.56	48.30	44.05	54.91	63.45
112.5	42.23	46.36	48.60	46.36	42.23	49.06	53.43
115.0	41.16	43.74	45.99	43.74	41.16	43.10	44.83
117.5	38.61	40.50	43.24	40.50	38.61	40.91	37.93
120.0	34.96	37.08	40.16	37.08	34.96	50.02	32.05
122.5	33.12	33.00	36.14	33.00	33.12	31.03	27.06
125.0	39.52	29.99	32.43	29.99	39.52	24.71	22.76
127.5	88.79	30.52	30.93	30.52	88.79	20.29	18.89
130.0	56.15	42.89	36.02	42.89	56.15	16.08	15.80
132.5	23.96	80.93	73.04	80.93	23.96	13.11	13.23
135.0	20.58	76.00	59.30	76.00	20.58	10.62	10.98
137.5	15.38	28.44	69.42	28.44	15.38	8.87	8.76
140.0	10.82	22.13	27.09	22.13	10.82	7.10	7.09
142.5	7.91	16.64	20.56	16.64	7.91	5.67	5.69
145.0	5.75	12.42	15.69	12.42	5.75	4.41	4.66
147.5	4.08	9.72	11.83	9.72	4.08	3.53	3.66
150.0	2.73	7.46	9.01	7.46	2.73	2.89	2.95
152.5	2.60	5.45	7.05	5.45	2.60	2.11	2.23
155.0	2.46	3.56	4.84	3.56	2.46	2.00	1.83
157.5	2.28	2.96	3.64	2.96	2.28	1.94	1.65
160.0	2.20	2.72	3.01	2.72	2.20	1.88	1.76
162.5	2.04	2.41	2.42	2.41	2.04	1.76	1.78
165.0	1.83	2.27	2.09	2.27	1.83	1.81	1.70
167.5	1.84	2.03	2.07	2.03	1.84	1.74	1.67
170.0	1.65	1.75	1.92	1.75	1.65	1.90	1.52
172.5	1.76	1.83	2.01	1.83	1.76	1.94	1.80
175.0	2.00	1.87	1.96	1.87	2.00	1.88	1.87
177.5	1.73	1.83	1.94	1.83	1.73	1.93	1.91
180.0	1.91	1.91	1.91	1.91	1.91	1.91	1.91

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1987.43	N.A.	12.30
0-30	4255.09	N.A.	26.30
0-40	7040.28	N.A.	43.50
0-60	12509.96	N.A.	77.40
0-80	15455.64	N.A.	95.60
0-90	15900.11	N.A.	98.30
10-90	15389.94	N.A.	95.20
20-40	5052.85	N.A.	31.20
20-50	8026.14	N.A.	49.60
40-70	7311.49	N.A.	45.20
60-80	2945.68	N.A.	18.20
70-80	1103.87	N.A.	6.80
80-90	444.47	N.A.	2.70
90-110	163.40	N.A.	1.00
90-120	207.15	N.A.	1.30
90-130	238.77	N.A.	1.50
90-150	268.56	N.A.	1.70
90-180	270.79	N.A.	1.70
110-180	107.39	N.A.	0.70
0-180	16170.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	510.18
10-20	1477.25
20-30	2267.66
30-40	2785.19
40-50	2973.28
50-60	2496.39
60-70	1841.81
70-80	1103.87
80-90	444.47
90-100	101.82
100-110	61.58
110-120	43.75
120-130	31.62
130-140	24.21
140-150	5.58
150-160	1.48
160-170	0.57
170-180	0.18

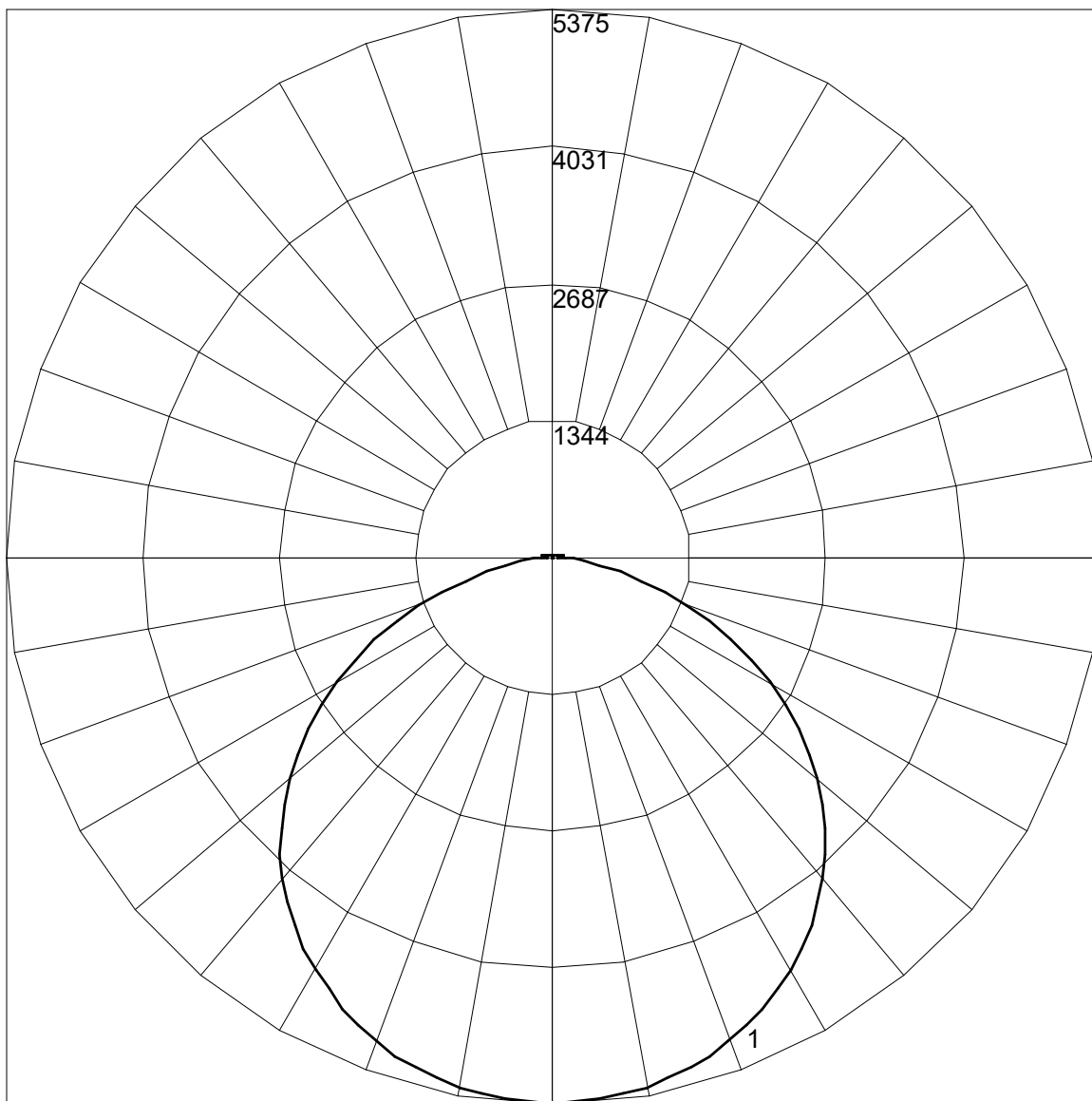
IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV.IES

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	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	41	67	55	47	40	53	46	40	51	45	39	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	30	25	23

POLAR GRAPH



Maximum Candela = 5374.68 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)