

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33736.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 10/29/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] APX24LL40-UNV-W
[LUMINAIRE] APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS WIDE OPTICS DIRA LENS
[LAMP] LED. LUMINAIRE OUTPUT = 22828 LMS
[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	191.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.90
Spacing Criterion (90-270)	2.16
Spacing Criterion (Diagonal)	1.96
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	17561	15980	16912
55	14302	14207	10489
65	4291	3364	4601
75	2143	1932	1381
85	1184	1131	1469

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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	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54
2.5	5030.70	5038.93	5051.28	5059.23	5071.48	5059.23	5051.28	5038.93	5030.70	5038.93
5.0	5151.20	5145.89	5131.13	5117.93	5114.12	5117.93	5131.13	5145.89	5151.20	5145.89
7.5	5320.44	5302.38	5255.66	5201.79	5182.03	5201.79	5255.66	5302.38	5320.44	5302.38
10.0	5518.31	5490.68	5411.22	5324.17	5276.02	5324.17	5411.22	5490.68	5518.31	5490.68
12.5	5733.55	5697.84	5593.69	5462.81	5405.85	5462.81	5593.69	5697.84	5733.55	5697.84
15.0	5957.30	5928.37	5800.97	5629.26	5557.59	5629.26	5800.97	5928.37	5957.30	5928.37
17.5	6209.47	6181.45	6023.62	5841.51	5754.32	5841.51	6023.62	6181.45	6209.47	6181.45
20.0	6503.98	6472.81	6301.82	6105.65	5985.49	6105.65	6301.82	6472.81	6503.98	6472.81
22.5	6848.10	6806.84	6624.44	6383.84	6278.22	6383.84	6624.44	6806.84	6848.10	6806.84
25.0	7136.52	7118.94	6936.44	6685.91	6611.41	6685.91	6936.44	7118.94	7136.52	7118.94
27.5	7292.73	7308.58	7175.25	6995.08	6944.57	6995.08	7175.25	7308.58	7292.73	7308.58
30.0	7274.26	7321.80	7304.78	7287.61	7235.73	7287.61	7304.78	7321.80	7274.26	7321.80
32.5	7116.20	7209.15	7325.71	7490.35	7514.17	7490.35	7325.71	7209.15	7116.20	7209.15
35.0	6930.16	7070.82	7306.68	7643.73	7756.35	7643.73	7306.68	7070.82	6930.16	7070.82
37.5	6819.39	6988.76	7288.14	7746.92	7897.85	7746.92	7288.14	6988.76	6819.39	6988.76
40.0	6757.68	6923.34	7306.21	7809.66	8069.73	7809.66	7306.21	6923.34	6757.68	6923.34
42.5	6660.85	6863.56	7337.51	7931.42	8128.27	7931.42	7337.51	6863.56	6660.85	6863.56
45.0	6471.41	6769.98	7302.20	7949.13	7966.70	7949.13	7302.20	6769.98	6471.41	6769.98
47.5	6166.15	6590.34	7160.37	7855.19	7897.42	7855.19	7160.37	6590.34	6166.15	6590.34
50.0	5687.68	6314.12	6970.77	7399.03	6745.70	7399.03	6970.77	6314.12	5687.68	6314.12
52.5	5105.33	5916.69	6595.65	6188.70	5768.52	6188.70	6595.65	5916.69	5105.33	5916.69
55.0	4466.24	5341.17	5892.52	4940.01	4521.66	4940.01	5892.52	5341.17	4466.24	5341.17
57.5	3815.47	4635.40	4821.73	3309.72	3703.50	3309.72	4821.73	4635.40	3815.47	4635.40
60.0	2987.80	3757.98	3415.57	2828.82	2682.61	2828.82	3415.57	3757.98	2987.80	3757.98
62.5	1932.01	2785.98	1971.39	1900.80	1685.32	1900.80	1971.39	2785.98	1932.01	2785.98
65.0	1058.01	1788.64	1210.86	1914.41	1739.22	1914.41	1210.86	1788.64	1058.01	1788.64
67.5	700.49	1039.21	857.93	1347.18	1831.47	1347.18	857.93	1039.21	700.49	1039.21
70.0	608.77	701.13	679.04	1203.62	1122.31	1203.62	679.04	701.13	608.77	701.13
72.5	500.15	522.50	774.62	684.62	613.48	684.62	522.50	500.15	522.50	774.62
75.0	371.41	369.15	568.36	462.06	432.76	462.06	369.15	371.41	369.15	568.36
77.5	288.71	270.34	394.54	393.94	415.08	393.94	394.54	270.34	288.71	394.54
80.0	216.57	219.36	319.83	340.16	345.30	340.16	319.83	219.36	216.57	319.83
82.5	159.26	192.27	259.66	315.85	341.69	315.85	192.27	159.26	192.27	259.66
85.0	112.33	164.90	248.24	324.23	351.70	324.23	164.90	112.33	164.90	248.24
87.5	72.91	138.50	241.07	275.14	286.17	275.14	138.50	72.91	138.50	241.07
90.0	38.10	108.05	203.33	226.15	249.84	226.15	108.05	38.10	108.05	203.33
92.5	36.51	89.03	138.39	174.54	202.27	174.54	89.03	36.51	89.03	138.39
95.0	44.09	62.49	85.86	110.73	135.34	110.73	62.49	44.09	62.49	85.86
97.5	55.82	45.02	63.97	94.07	104.77	94.07	45.02	55.82	45.02	63.97
100.0	54.31	43.49	59.92	84.23	90.29	84.23	43.49	54.31	43.49	59.92
102.5	50.67	43.20	57.81	77.58	83.23	77.58	43.20	50.67	43.20	57.81
105.0	46.14	42.98	56.54	71.75	80.34	71.75	42.98	46.14	42.98	56.54
107.5	41.13	43.00	55.75	68.37	73.28	68.37	43.00	41.13	43.00	55.75
110.0	37.10	42.46	53.28	67.24	71.82	67.24	42.46	37.10	42.46	53.28
112.5	33.19	41.02	50.87	64.94	69.66	64.94	41.02	33.19	41.02	50.87
115.0	32.20	41.39	47.88	60.75	66.33	60.75	41.39	32.20	41.39	47.88
117.5	34.32	42.52	45.07	55.48	61.18	55.48	42.52	34.32	42.52	45.07
120.0	35.07	42.31	42.32	50.89	55.51	50.89	42.31	35.07	42.31	42.32
122.5	33.43	39.38	40.10	46.54	51.15	46.54	39.38	33.43	39.38	40.10
125.0	30.26	34.78	39.13	42.33	47.39	42.33	34.78	30.26	34.78	39.13
127.5	26.21	28.53	40.06	39.96	44.27	39.96	28.53	26.21	28.53	40.06
130.0	22.77	23.54	36.41	40.22	43.13	40.22	23.54	22.77	23.54	36.41
132.5	19.14	19.51	34.50	42.66	45.28	42.66	19.51	19.14	19.51	34.50

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135.0	15.65	15.42	28.53	34.98	39.26	34.98	28.53	15.42	15.65	15.42
137.5	12.42	12.00	21.64	33.56	34.20	33.56	21.64	12.00	12.42	12.00
140.0	9.79	9.21	16.44	32.25	34.35	32.25	16.44	9.21	9.79	9.21
142.5	7.86	7.12	12.27	23.37	31.08	23.37	12.27	7.12	7.86	7.12
145.0	5.94	5.44	8.93	18.64	22.61	18.64	8.93	5.44	5.94	5.44
147.5	4.53	3.96	6.22	15.03	17.66	15.03	6.22	3.96	4.53	3.96
150.0	3.46	2.89	3.91	11.56	14.05	11.56	3.91	2.89	3.46	2.89
152.5	2.59	2.00	2.80	8.33	10.47	8.33	2.80	2.00	2.59	2.00
155.0	2.00	1.87	2.00	5.24	6.99	5.24	2.00	1.87	2.00	1.87
157.5	1.58	1.74	1.93	3.68	5.25	3.68	1.93	1.74	1.58	1.74
160.0	1.49	1.57	1.86	2.14	3.44	2.14	1.86	1.57	1.49	1.57
162.5	1.66	1.36	1.31	1.80	1.68	1.80	1.31	1.36	1.66	1.36
165.0	1.47	1.52	1.43	1.52	1.61	1.52	1.43	1.52	1.47	1.52
167.5	1.33	1.27	1.31	1.24	1.38	1.24	1.31	1.27	1.33	1.27
170.0	1.19	1.29	1.12	1.13	1.20	1.13	1.12	1.29	1.19	1.29
172.5	1.22	1.35	1.30	1.29	1.27	1.29	1.30	1.35	1.22	1.35
175.0	1.45	1.29	1.11	1.11	1.18	1.11	1.11	1.29	1.45	1.29
177.5	1.31	1.34	1.14	1.21	1.19	1.21	1.14	1.34	1.31	1.34
180.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38

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	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54	5025.54
2.5	5051.28	5059.23	5071.48	5059.23	5051.28	5038.93	5030.70
5.0	5131.13	5117.93	5114.12	5117.93	5131.13	5145.89	5151.20
7.5	5255.66	5201.79	5182.03	5201.79	5255.66	5302.38	5320.44
10.0	5411.22	5324.17	5276.02	5324.17	5411.22	5490.68	5518.31
12.5	5593.69	5462.81	5405.85	5462.81	5593.69	5697.84	5733.55
15.0	5800.97	5629.26	5557.59	5629.26	5800.97	5928.37	5957.30
17.5	6023.62	5841.51	5754.32	5841.51	6023.62	6181.45	6209.47
20.0	6301.82	6105.65	5985.49	6105.65	6301.82	6472.81	6503.98
22.5	6624.44	6383.84	6278.22	6383.84	6624.44	6806.84	6848.10
25.0	6936.44	6685.91	6611.41	6685.91	6936.44	7118.94	7136.52
27.5	7175.25	6995.08	6944.57	6995.08	7175.25	7308.58	7292.73
30.0	7304.78	7287.61	7235.73	7287.61	7304.78	7321.80	7274.26
32.5	7325.71	7490.35	7514.17	7490.35	7325.71	7209.15	7116.20
35.0	7306.68	7643.73	7756.35	7643.73	7306.68	7070.82	6930.16
37.5	7288.14	7746.92	7897.85	7746.92	7288.14	6988.76	6819.39
40.0	7306.21	7809.66	8069.73	7809.66	7306.21	6923.34	6757.68
42.5	7337.51	7931.42	8128.27	7931.42	7337.51	6863.56	6660.85
45.0	7302.20	7949.13	7966.70	7949.13	7302.20	6769.98	6471.41
47.5	7160.37	7855.19	7897.42	7855.19	7160.37	6590.34	6166.15
50.0	6970.77	7399.03	6745.70	7399.03	6970.77	6314.12	5687.68
52.5	6595.65	6188.70	5768.52	6188.70	6595.65	5916.69	5105.33
55.0	5892.52	4940.01	4521.66	4940.01	5892.52	5341.17	4466.24
57.5	4821.73	3309.72	3703.50	3309.72	4821.73	4635.40	3815.47
60.0	3415.57	2828.82	2682.61	2828.82	3415.57	3757.98	2987.80
62.5	1971.39	1900.80	1685.32	1900.80	1971.39	2785.98	1932.01
65.0	1210.86	1914.41	1739.22	1914.41	1210.86	1788.64	1058.01
67.5	857.93	1347.18	1831.47	1347.18	857.93	1039.21	700.49
70.0	679.04	1203.62	1122.31	1203.62	679.04	701.13	608.77
72.5	774.62	684.62	613.48	684.62	774.62	522.50	500.15
75.0	568.36	462.06	432.76	462.06	568.36	369.15	371.41
77.5	394.54	393.94	415.08	393.94	394.54	270.34	288.71
80.0	319.83	340.16	345.30	340.16	319.83	219.36	216.57

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82.5	259.66	315.85	341.69	315.85	259.66	192.27	159.26
85.0	248.24	324.23	351.70	324.23	248.24	164.90	112.33
87.5	241.07	275.14	286.17	275.14	241.07	138.50	72.91
90.0	203.33	226.15	249.84	226.15	203.33	108.05	38.10
92.5	138.39	174.54	202.27	174.54	138.39	89.03	36.51
95.0	85.86	110.73	135.34	110.73	85.86	62.49	44.09
97.5	63.97	94.07	104.77	94.07	63.97	45.02	55.82
100.0	59.92	84.23	90.29	84.23	59.92	43.49	54.31
102.5	57.81	77.58	83.23	77.58	57.81	43.20	50.67
105.0	56.54	71.75	80.34	71.75	56.54	42.98	46.14
107.5	55.75	68.37	73.28	68.37	55.75	43.00	41.13
110.0	53.28	67.24	71.82	67.24	53.28	42.46	37.10
112.5	50.87	64.94	69.66	64.94	50.87	41.02	33.19
115.0	47.88	60.75	66.33	60.75	47.88	41.39	32.20
117.5	45.07	55.48	61.18	55.48	45.07	42.52	34.32
120.0	42.32	50.89	55.51	50.89	42.32	42.31	35.07
122.5	40.10	46.54	51.15	46.54	40.10	39.38	33.43
125.0	39.13	42.33	47.39	42.33	39.13	34.78	30.26
127.5	40.06	39.96	44.27	39.96	40.06	28.53	26.21
130.0	36.41	40.22	43.13	40.22	36.41	23.54	22.77
132.5	34.50	42.66	45.28	42.66	34.50	19.51	19.14
135.0	28.53	34.98	39.26	34.98	28.53	15.42	15.65
137.5	21.64	33.56	34.20	33.56	21.64	12.00	12.42
140.0	16.44	32.25	34.35	32.25	16.44	9.21	9.79
142.5	12.27	23.37	31.08	23.37	12.27	7.12	7.86
145.0	8.93	18.64	22.61	18.64	8.93	5.44	5.94
147.5	6.22	15.03	17.66	15.03	6.22	3.96	4.53
150.0	3.91	11.56	14.05	11.56	3.91	2.89	3.46
152.5	2.80	8.33	10.47	8.33	2.80	2.00	2.59
155.0	2.00	5.24	6.99	5.24	2.00	1.87	2.00
157.5	1.93	3.68	5.25	3.68	1.93	1.74	1.58
160.0	1.86	2.14	3.44	2.14	1.86	1.57	1.49
162.5	1.31	1.80	1.68	1.80	1.31	1.36	1.66
165.0	1.43	1.52	1.61	1.52	1.43	1.52	1.47
167.5	1.31	1.24	1.38	1.24	1.31	1.27	1.33
170.0	1.12	1.13	1.20	1.13	1.12	1.29	1.19
172.5	1.30	1.29	1.27	1.29	1.30	1.35	1.22
175.0	1.11	1.11	1.18	1.11	1.11	1.29	1.45
177.5	1.14	1.21	1.19	1.21	1.14	1.34	1.31
180.0	1.38	1.38	1.38	1.38	1.38	1.38	1.38

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2155.97	N.A.	9.40
0-30	5344.83	N.A.	23.40
0-40	9954.8	N.A.	43.60
0-60	20065.49	N.A.	87.90
0-80	22283.8	N.A.	97.60
0-90	22538.89	N.A.	98.70
10-90	22040.29	N.A.	96.50
20-40	7798.83	N.A.	34.20
20-50	13387.45	N.A.	58.60
40-70	11798.6	N.A.	51.70
60-80	2218.32	N.A.	9.70
70-80	530.41	N.A.	2.30
80-90	255.09	N.A.	1.10
90-110	173.29	N.A.	0.80
90-120	222.82	N.A.	1.00
90-130	257.92	N.A.	1.10
90-150	287.00	N.A.	1.30
90-180	289.39	N.A.	1.30
110-180	116.10	N.A.	0.50
0-180	22828.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	498.61
10-20	1657.36
20-30	3188.86
30-40	4609.97
40-50	5588.62
50-60	4522.07
60-70	1687.91
70-80	530.41
80-90	255.09
90-100	110.89
100-110	62.40
110-120	49.53
120-130	35.10
130-140	21.09
140-150	7.99
150-160	1.84
160-170	0.43
170-180	0.12

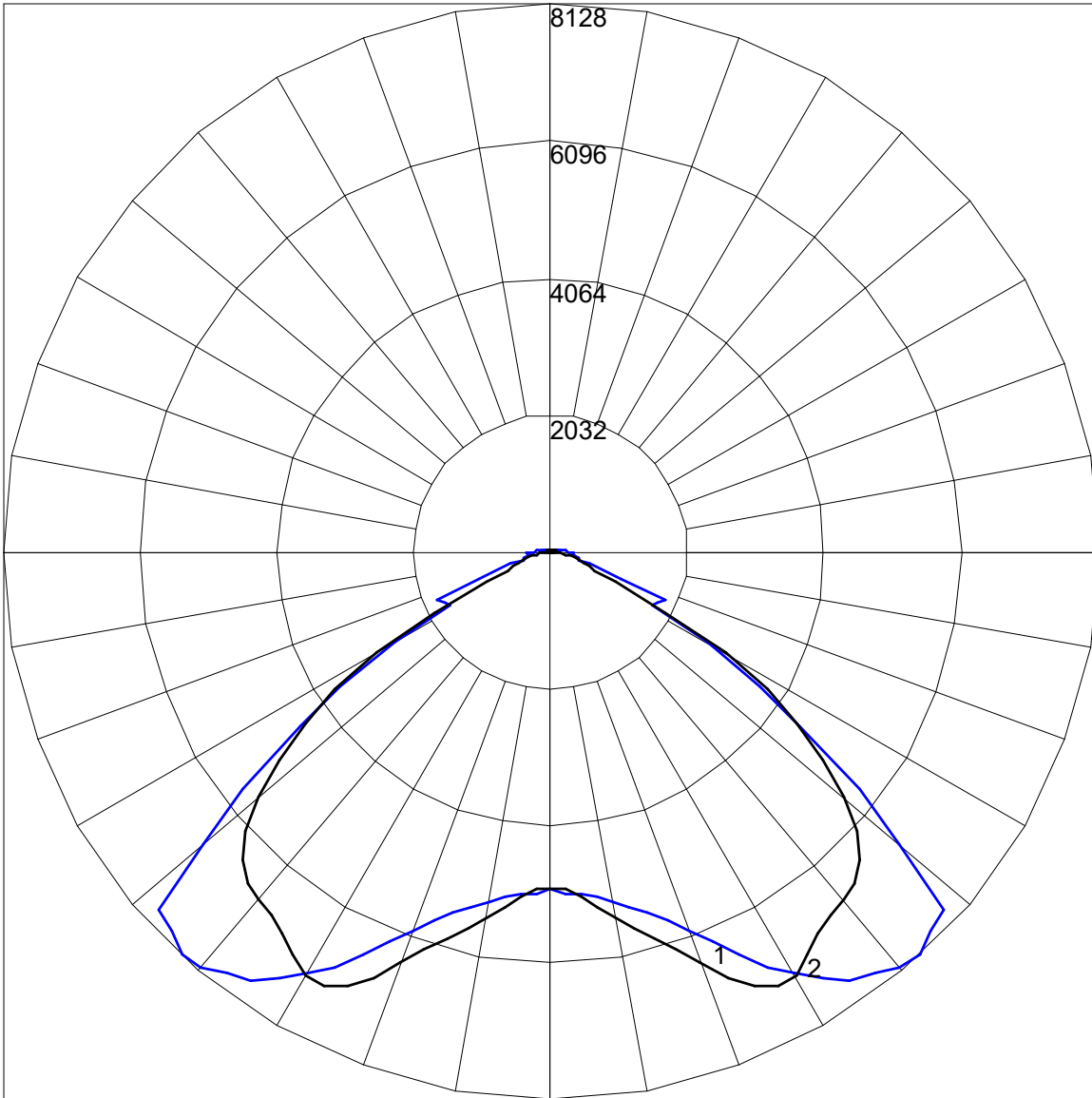
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	110	105	101	98	107	103	99	96	98	96	93	94	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	64	55	49	74	63	55	48	61	53	48	58	52	47	57	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 8128.27 Located At Horizontal Angle = 90, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)