

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX24LL40-UNV-M.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] FO33719.PSO
 [TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
 [ISSUE DATE] 10/28/14
 [MANUFAC] SIGNIFY DAY-BRITE - CFI
 [LUMCAT] APX24LL40-UNV-M
 [LUMINAIRE] APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS MEDIUM OPTICS DIRA LENS
 [LAMP] LED. LUMINAIRE OUTPUT = 22931 LMS
 [TEST DATE] 10/28/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	191
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.26
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	9968	12329	9429
55	3341	2518	1538
65	2487	1053	1162
75	1540	868	931
85	772	737	1135

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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	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66
2.5	12621.30	12630.50	12667.30	12695.05	12736.60	12695.05	12667.30	12630.50	12621.30	12630.50
5.0	12662.70	12668.45	12731.30	12766.65	12789.00	12766.65	12731.30	12668.45	12662.70	12668.45
7.5	12727.50	12733.75	12809.20	12841.15	12874.60	12841.15	12809.20	12733.75	12727.50	12733.75
10.0	12808.00	12831.80	12911.85	12976.65	12975.75	12976.65	12911.85	12831.80	12808.00	12831.80
12.5	12901.60	12951.55	13051.80	13095.40	13091.00	13095.40	13051.80	12951.55	12901.60	12951.55
15.0	12968.90	13074.95	13205.30	13235.95	13216.45	13235.95	13205.30	13074.95	12968.90	13074.95
17.5	12949.70	13137.35	13365.80	13394.30	13361.60	13394.30	13365.80	13137.35	12949.70	13137.35
20.0	12743.95	13030.90	13453.80	13550.75	13531.75	13550.75	13453.80	13030.90	12743.95	13030.90
22.5	12308.25	12727.85	13394.50	13657.10	13615.50	13657.10	13394.50	12727.85	12308.25	12727.85
25.0	11698.10	12228.50	13143.75	13574.15	13513.90	13574.15	13143.75	12228.50	11698.10	12228.50
27.5	10988.65	11602.30	12703.95	13289.20	13176.50	13289.20	12703.95	11602.30	10988.65	11602.30
30.0	10270.05	10912.95	12102.90	12753.15	12635.30	12753.15	12102.90	10912.95	10270.05	10912.95
32.5	9565.89	10215.86	11390.60	11929.90	11815.25	11929.90	11390.60	10215.86	9565.89	10215.86
35.0	8784.12	9506.93	10527.12	10858.64	10683.15	10858.64	10527.12	9506.93	8784.12	9506.93
37.5	7848.51	8725.53	9497.98	9575.97	9282.10	9575.97	9497.98	8725.53	7848.51	8725.53
40.0	6684.01	7778.45	8339.15	8088.24	7727.21	8088.24	8339.15	7778.45	6684.01	7778.45
42.5	5261.72	6609.84	7041.52	6481.02	6036.08	6481.02	7041.52	6609.84	5261.72	6609.84
45.0	3673.19	5197.07	5633.87	4837.39	4441.78	4837.39	5633.87	5197.07	3673.19	5197.07
47.5	2285.49	3702.99	4164.91	3406.86	3160.89	3406.86	4164.91	3702.99	2285.49	3702.99
50.0	1381.51	2360.72	2815.28	2194.19	2078.26	2194.19	2815.28	2360.72	1381.51	2360.72
52.5	1076.53	1412.74	1750.42	1327.80	1263.47	1327.80	1750.42	1412.74	1076.53	1412.74
55.0	1043.26	876.57	1044.40	780.34	663.20	780.34	1044.40	876.57	1043.26	876.57
57.5	954.62	661.26	657.44	546.46	540.06	546.46	657.44	661.26	954.62	661.26
60.0	808.75	575.67	498.43	487.57	498.54	487.57	498.43	575.67	808.75	575.67
62.5	695.24	507.52	429.92	446.09	495.01	446.09	429.92	507.52	695.24	507.52
65.0	613.07	440.54	379.00	430.03	439.39	430.03	379.00	440.54	613.07	440.54
67.5	519.42	377.61	339.75	386.14	401.40	386.14	339.75	377.61	519.42	377.61
70.0	434.57	320.27	308.33	360.68	378.24	360.68	308.33	320.27	434.57	320.27
72.5	338.12	262.98	283.57	327.36	326.37	327.36	283.57	262.98	338.12	262.98
75.0	267.03	210.72	255.44	282.27	291.90	282.27	255.44	210.72	267.03	210.72
77.5	227.82	169.88	220.10	262.60	306.96	262.60	220.10	169.88	227.82	169.88
80.0	165.96	138.71	192.47	237.29	273.56	237.29	192.47	138.71	165.96	138.71
82.5	110.53	115.33	166.34	222.97	286.04	222.97	166.34	115.33	110.53	115.33
85.0	73.22	96.54	161.71	221.69	271.70	221.69	161.71	96.54	73.22	96.54
87.5	41.75	80.77	151.41	188.08	228.89	188.08	151.41	80.77	41.75	80.77
90.0	20.06	64.96	129.48	153.33	202.64	153.33	129.48	64.96	20.06	64.96
92.5	20.06	52.25	88.79	125.70	185.81	125.70	88.79	52.25	20.06	52.25
95.0	26.33	38.47	56.42	73.94	119.40	73.94	56.42	38.47	26.33	38.47
97.5	34.61	27.39	37.40	49.58	60.31	49.58	37.40	27.39	34.61	27.39
100.0	35.89	25.67	35.38	45.61	50.91	45.61	35.38	25.67	35.89	25.67
102.5	34.86	25.03	37.23	45.19	49.28	45.19	37.23	25.03	34.86	25.03
105.0	30.20	24.68	36.64	45.51	47.86	45.51	36.64	24.68	30.20	24.68
107.5	24.71	23.45	35.81	44.78	47.25	44.78	35.81	23.45	24.71	23.45
110.0	21.37	21.85	33.59	43.09	46.14	43.09	33.59	21.85	21.37	21.85
112.5	18.20	19.17	31.20	40.59	44.29	40.59	31.20	19.17	18.20	19.17
115.0	15.00	16.89	29.10	37.52	41.58	37.52	29.10	16.89	15.00	16.89
117.5	12.70	15.34	27.15	34.73	38.64	34.73	27.15	15.34	12.70	15.34
120.0	10.71	14.18	25.26	32.15	35.92	32.15	25.26	14.18	10.71	14.18
122.5	9.38	12.80	24.04	30.21	33.59	30.21	24.04	12.80	9.38	12.80
125.0	8.13	11.55	24.09	28.48	31.86	28.48	24.09	11.55	8.13	11.55
127.5	7.81	10.04	24.05	27.74	30.72	27.74	24.05	10.04	7.81	10.04
130.0	7.51	8.47	21.23	28.11	31.63	28.11	21.23	8.47	7.51	8.47
132.5	7.53	7.64	20.75	27.98	32.44	27.98	20.75	7.64	7.53	7.64

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CANDELA TABULATION - (Cont.)

135.0	7.02	6.40	17.82	24.15	27.82	24.15	17.82	6.40	7.02	6.40
137.5	5.93	5.42	13.43	22.95	25.03	22.95	13.43	5.42	5.93	5.42
140.0	4.97	4.17	10.39	22.13	24.07	22.13	10.39	4.17	4.97	4.17
142.5	4.22	3.91	8.14	17.32	23.66	17.32	8.14	3.91	4.22	3.91
145.0	3.57	3.54	6.12	13.99	17.37	13.99	6.12	3.54	3.57	3.54
147.5	3.16	2.63	4.56	11.46	13.91	11.46	4.56	2.63	3.16	2.63
150.0	3.11	2.59	3.64	9.40	11.53	9.40	3.64	2.59	3.11	2.59
152.5	2.57	2.45	2.85	7.25	9.29	7.25	2.85	2.45	2.57	2.45
155.0	2.62	2.69	2.57	5.67	7.39	5.67	2.57	2.69	2.62	2.69
157.5	2.74	2.96	2.92	4.78	6.37	4.78	2.92	2.96	2.74	2.96
160.0	3.41	3.49	3.17	3.61	5.42	3.61	3.17	3.49	3.41	3.49
162.5	3.44	3.51	3.53	3.75	4.16	3.75	3.53	3.51	3.44	3.51
165.0	3.77	3.50	3.54	3.94	4.07	3.94	3.54	3.50	3.77	3.50
167.5	3.46	3.59	3.48	3.88	3.89	3.88	3.48	3.59	3.46	3.59
170.0	3.75	3.35	3.60	3.84	3.69	3.84	3.60	3.35	3.75	3.35
172.5	3.99	3.81	3.53	4.23	4.08	4.23	3.53	3.81	3.99	3.81
175.0	4.34	4.09	3.98	4.12	4.47	4.12	3.98	4.09	4.34	4.09
177.5	4.52	4.41	4.04	4.22	4.30	4.22	4.04	4.41	4.52	4.41
180.0	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25

**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	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66	12658.66
2.5	12667.30	12695.05	12736.60	12695.05	12667.30	12630.50	12621.30
5.0	12731.30	12766.65	12789.00	12766.65	12731.30	12668.45	12662.70
7.5	12809.20	12841.15	12874.60	12841.15	12809.20	12733.75	12727.50
10.0	12911.85	12976.65	12975.75	12976.65	12911.85	12831.80	12808.00
12.5	13051.80	13095.40	13091.00	13095.40	13051.80	12951.55	12901.60
15.0	13205.30	13235.95	13216.45	13235.95	13205.30	13074.95	12968.90
17.5	13365.80	13394.30	13361.60	13394.30	13365.80	13137.35	12949.70
20.0	13453.80	13550.75	13531.75	13550.75	13453.80	13030.90	12743.95
22.5	13394.50	13657.10	13615.50	13657.10	13394.50	12727.85	12308.25
25.0	13143.75	13574.15	13513.90	13574.15	13143.75	12228.50	11698.10
27.5	12703.95	13289.20	13176.50	13289.20	12703.95	11602.30	10988.65
30.0	12102.90	12753.15	12635.30	12753.15	12102.90	10912.95	10270.05
32.5	11390.60	11929.90	11815.25	11929.90	11390.60	10215.86	9565.89
35.0	10527.12	10858.64	10683.15	10858.64	10527.12	9506.93	8784.12
37.5	9497.98	9575.97	9282.10	9575.97	9497.98	8725.53	7848.51
40.0	8339.15	8088.24	7727.21	8088.24	8339.15	7778.45	6684.01
42.5	7041.52	6481.02	6036.08	6481.02	7041.52	6609.84	5261.72
45.0	5633.87	4837.39	4441.78	4837.39	5633.87	5197.07	3673.19
47.5	4164.91	3406.86	3160.89	3406.86	4164.91	3702.99	2285.49
50.0	2815.28	2194.19	2078.26	2194.19	2815.28	2360.72	1381.51
52.5	1750.42	1327.80	1263.47	1327.80	1750.42	1412.74	1076.53
55.0	1044.40	780.34	663.20	780.34	1044.40	876.57	1043.26
57.5	657.44	546.46	540.06	546.46	657.44	661.26	954.62
60.0	498.43	487.57	498.54	487.57	498.43	575.67	808.75
62.5	429.92	446.09	495.01	446.09	429.92	507.52	695.24
65.0	379.00	430.03	439.39	430.03	379.00	440.54	613.07
67.5	339.75	386.14	401.40	386.14	339.75	377.61	519.42
70.0	308.33	360.68	378.24	360.68	308.33	320.27	434.57
72.5	283.57	327.36	326.37	327.36	283.57	262.98	338.12
75.0	255.44	282.27	291.90	282.27	255.44	210.72	267.03
77.5	220.10	262.60	306.96	262.60	220.10	169.88	227.82
80.0	192.47	237.29	273.56	237.29	192.47	138.71	165.96

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CANDELA TABULATION - (Cont.)

82.5	166.34	222.97	286.04	222.97	166.34	115.33	110.53
85.0	161.71	221.69	271.70	221.69	161.71	96.54	73.22
87.5	151.41	188.08	228.89	188.08	151.41	80.77	41.75
90.0	129.48	153.33	202.64	153.33	129.48	64.96	20.06
92.5	88.79	125.70	185.81	125.70	88.79	52.25	20.06
95.0	56.42	73.94	119.40	73.94	56.42	38.47	26.33
97.5	37.40	49.58	60.31	49.58	37.40	27.39	34.61
100.0	35.38	45.61	50.91	45.61	35.38	25.67	35.89
102.5	37.23	45.19	49.28	45.19	37.23	25.03	34.86
105.0	36.64	45.51	47.86	45.51	36.64	24.68	30.20
107.5	35.81	44.78	47.25	44.78	35.81	23.45	24.71
110.0	33.59	43.09	46.14	43.09	33.59	21.85	21.37
112.5	31.20	40.59	44.29	40.59	31.20	19.17	18.20
115.0	29.10	37.52	41.58	37.52	29.10	16.89	15.00
117.5	27.15	34.73	38.64	34.73	27.15	15.34	12.70
120.0	25.26	32.15	35.92	32.15	25.26	14.18	10.71
122.5	24.04	30.21	33.59	30.21	24.04	12.80	9.38
125.0	24.09	28.48	31.86	28.48	24.09	11.55	8.13
127.5	24.05	27.74	30.72	27.74	24.05	10.04	7.81
130.0	21.23	28.11	31.63	28.11	21.23	8.47	7.51
132.5	20.75	27.98	32.44	27.98	20.75	7.64	7.53
135.0	17.82	24.15	27.82	24.15	17.82	6.40	7.02
137.5	13.43	22.95	25.03	22.95	13.43	5.42	5.93
140.0	10.39	22.13	24.07	22.13	10.39	4.17	4.97
142.5	8.14	17.32	23.66	17.32	8.14	3.91	4.22
145.0	6.12	13.99	17.37	13.99	6.12	3.54	3.57
147.5	4.56	11.46	13.91	11.46	4.56	2.63	3.16
150.0	3.64	9.40	11.53	9.40	3.64	2.59	3.11
152.5	2.85	7.25	9.29	7.25	2.85	2.45	2.57
155.0	2.57	5.67	7.39	5.67	2.57	2.69	2.62
157.5	2.92	4.78	6.37	4.78	2.92	2.96	2.74
160.0	3.17	3.61	5.42	3.61	3.17	3.49	3.41
162.5	3.53	3.75	4.16	3.75	3.53	3.51	3.44
165.0	3.54	3.94	4.07	3.94	3.54	3.50	3.77
167.5	3.48	3.88	3.89	3.88	3.48	3.59	3.46
170.0	3.60	3.84	3.69	3.84	3.60	3.35	3.75
172.5	3.53	4.23	4.08	4.23	3.53	3.81	3.99
175.0	3.98	4.12	4.47	4.12	3.98	4.09	4.34
177.5	4.04	4.22	4.30	4.22	4.04	4.41	4.52
180.0	4.25	4.25	4.25	4.25	4.25	4.25	4.25

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4949.31	N.A.	21.60
0-30	10835.39	N.A.	47.30
0-40	17090.14	N.A.	74.50
0-60	21856.79	N.A.	95.30
0-80	22577.6	N.A.	98.50
0-90	22750.34	N.A.	99.20
10-90	21530.33	N.A.	93.90
20-40	12140.83	N.A.	52.90
20-50	15941.19	N.A.	69.50
40-70	5207.3	N.A.	22.70
60-80	720.82	N.A.	3.10
70-80	280.16	N.A.	1.20
80-90	172.74	N.A.	0.80
90-110	111.75	N.A.	0.50
90-120	139.75	N.A.	0.60
90-130	158.85	N.A.	0.70
90-150	177.35	N.A.	0.80
90-180	180.77	N.A.	0.80
110-180	69.03	N.A.	0.30
0-180	22931.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1220.01
10-20	3729.3
20-30	5886.07
30-40	6254.75
40-50	3800.37
50-60	966.28
60-70	440.65
70-80	280.16
80-90	172.74
90-100	73.61
100-110	38.14
110-120	28.01
120-130	19.09
130-140	12.85
140-150	5.65
150-160	2.01
160-170	1.04
170-180	0.38

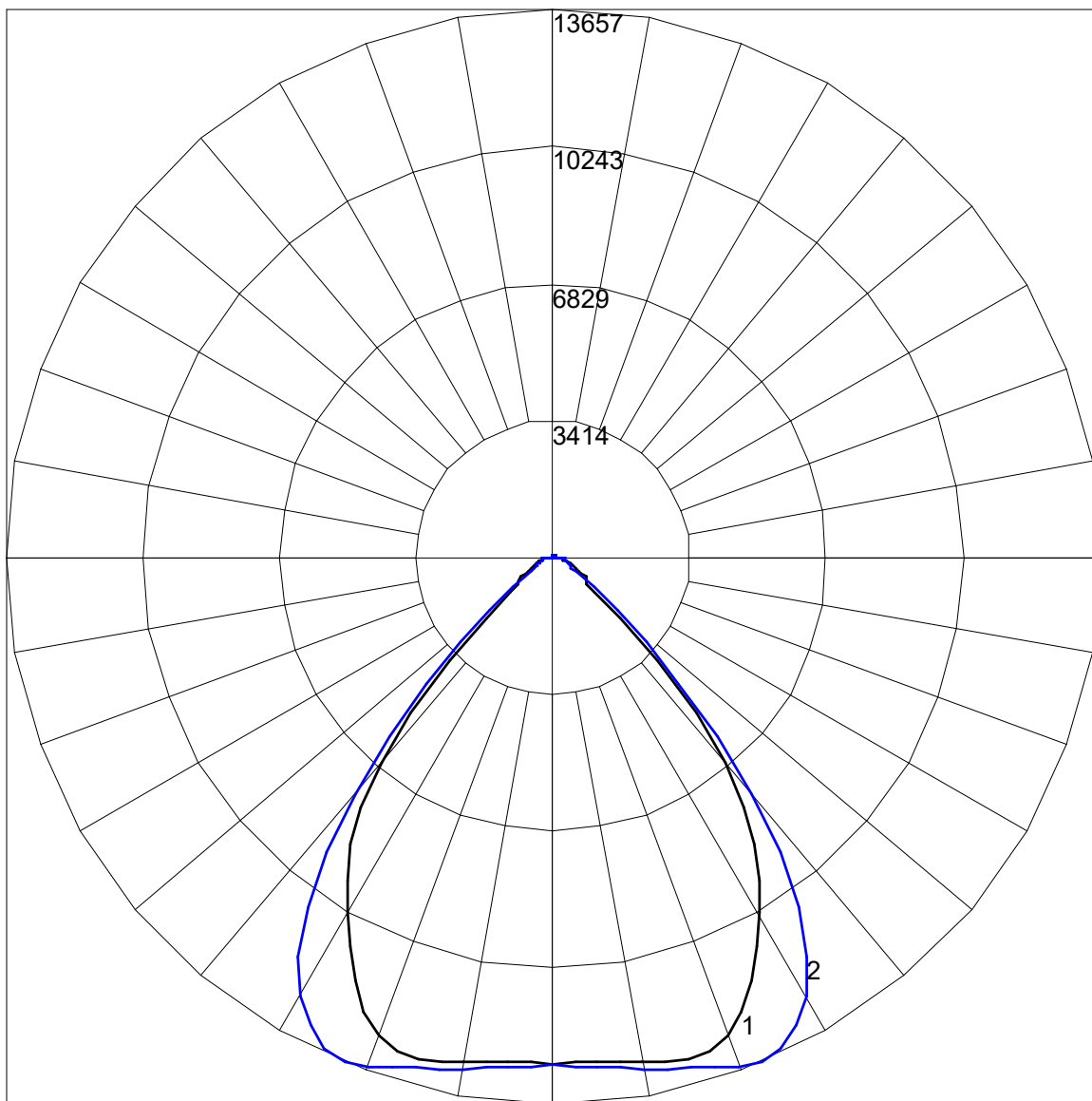
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	112	108	105	103	109	106	103	101	102	100	98	98	96	94	94	93	92	90
2	105	99	94	90	102	97	92	88	93	90	86	90	87	84	87	85	82	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	74	70	67	65
5	86	76	68	63	84	74	68	63	72	67	62	71	66	62	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	44	40	61	51	44	40	50	44	40	49	43	39	48	43	39	38

POLAR GRAPH



Maximum Candela = 13657.1 Located At Horizontal Angle = 67.5, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)