



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SKY24-LED28DMV30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000884-007A-R01  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] LXT24L28W3500LDMV30K / SKY24-LED28DMV30  
 [LUMINAIRE] Catalog Number: LXT24L28W3500LDMV30K / SKY24-LED28DMV30  
 [MORE] Recessed mounted, formed white enamel steel housing, white enamel internal reflector, clear linear  
 [MORE] ribbed plastic enclosures with frosted side inserts and frosted and specular grid center insert.  
 [MORE] 288 white LEDs, four Philips FortimoLED Strip LED boards with 72 LEDs each.  
 [MORE] One Philips Advance Xitanium XI054C150V054BST1 LED driver programmed to 700mA.  
 [MORE] 120.0Vac, 60.00Hz, 0.2334A, 27.23W, 0.972PF, 11.6%THD(i)  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 9.5m.  
 [MORE] This IES file created by LightLab/LSA Report program version 3.808a.  
 [DATE] This file created: Friday, November 3, 2017 11:07:15 AM  
 [ISSUE DATE] Friday, November 3, 2017 11:07:15 AM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	27.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.19 m
Luminous Width (90-270)	0.58 m
Luminous Height	0.00 m

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1542	1556	1584
55	1368	1412	1482
65	1101	1242	1358
75	724	1076	1223
85	368	546	516

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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>
<b>0.0</b>	1281.25	1281.25	1281.25	1281.25	1281.25
<b>0.5</b>	1283.97	1284.65	1279.86	1279.28	1277.62
<b>1.0</b>	1283.65	1284.38	1279.69	1279.09	1277.36
<b>1.5</b>	1283.20	1283.96	1279.33	1278.69	1276.84
<b>2.0</b>	1282.70	1283.40	1278.87	1278.21	1276.43
<b>2.5</b>	1281.88	1282.68	1278.16	1277.69	1275.62
<b>3.0</b>	1281.08	1281.76	1277.46	1276.86	1274.83
<b>3.5</b>	1279.94	1280.77	1276.57	1275.94	1273.83
<b>4.0</b>	1278.64	1279.66	1275.51	1274.84	1272.73
<b>4.5</b>	1277.41	1278.39	1274.27	1273.66	1271.46
<b>5.0</b>	1275.99	1277.02	1272.92	1272.28	1270.02
<b>5.5</b>	1274.34	1275.46	1271.47	1270.76	1268.41
<b>6.0</b>	1272.60	1273.81	1269.86	1269.16	1266.70
<b>6.5</b>	1270.69	1271.92	1268.19	1267.40	1264.91
<b>7.0</b>	1268.49	1269.98	1266.36	1265.41	1262.84
<b>7.5</b>	1266.32	1267.84	1264.26	1263.38	1260.76
<b>8.0</b>	1263.93	1265.49	1262.11	1261.14	1258.44
<b>8.5</b>	1261.34	1263.14	1259.88	1258.83	1255.98
<b>9.0</b>	1258.65	1260.57	1257.35	1256.34	1253.52
<b>9.5</b>	1255.93	1257.84	1254.71	1253.77	1251.01
<b>10.0</b>	1252.88	1254.96	1251.93	1251.00	1248.16
<b>10.5</b>	1249.75	1251.99	1249.02	1248.20	1245.32
<b>11.0</b>	1246.53	1248.88	1246.04	1245.30	1242.27
<b>11.5</b>	1243.10	1245.54	1242.85	1242.21	1239.12
<b>12.0</b>	1239.67	1242.14	1239.57	1239.06	1235.85
<b>12.5</b>	1235.98	1238.55	1236.17	1235.66	1232.47
<b>13.0</b>	1232.27	1234.86	1232.56	1232.18	1228.91
<b>13.5</b>	1228.37	1230.97	1228.86	1228.63	1225.36
<b>14.0</b>	1224.29	1227.00	1225.01	1224.83	1221.57
<b>14.5</b>	1220.08	1222.84	1221.00	1220.92	1217.54
<b>15.0</b>	1215.73	1218.55	1216.92	1216.97	1213.66
<b>15.5</b>	1211.43	1214.15	1212.67	1212.87	1209.38
<b>16.0</b>	1206.83	1209.55	1208.32	1208.62	1205.22
<b>16.5</b>	1202.19	1204.94	1203.72	1204.21	1200.86
<b>17.0</b>	1197.49	1200.21	1199.09	1199.72	1196.42
<b>17.5</b>	1192.54	1195.26	1194.37	1195.08	1191.81
<b>18.0</b>	1187.48	1190.20	1189.48	1190.35	1187.10
<b>18.5</b>	1182.29	1184.94	1184.47	1185.57	1182.31
<b>19.0</b>	1177.01	1179.61	1179.15	1180.54	1177.19
<b>19.5</b>	1171.78	1174.21	1173.95	1175.48	1172.28
<b>20.0</b>	1166.18	1168.73	1168.52	1170.28	1166.94
<b>20.5</b>	1160.65	1162.96	1162.95	1164.90	1161.50
<b>21.0</b>	1154.76	1157.23	1157.34	1159.30	1156.00
<b>21.5</b>	1148.81	1151.34	1151.55	1153.80	1150.47
<b>22.0</b>	1142.92	1145.22	1145.59	1147.95	1144.62
<b>22.5</b>	1137.07	1139.10	1139.68	1142.12	1138.77
<b>23.0</b>	1130.71	1132.85	1133.54	1136.16	1132.78
<b>23.5</b>	1124.18	1126.42	1127.22	1129.88	1126.68
<b>24.0</b>	1117.83	1119.96	1120.94	1123.72	1120.45
<b>24.5</b>	1111.29	1113.32	1114.52	1117.36	1114.08
<b>25.0</b>	1104.59	1106.58	1107.89	1110.88	1107.50
<b>25.5</b>	1097.86	1099.73	1101.19	1104.25	1100.94
<b>26.0</b>	1091.02	1092.87	1094.51	1097.62	1094.21
<b>26.5</b>	1083.94	1085.76	1087.54	1090.62	1087.29

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**CANDELA TABULATION - (Cont.)**

27.0	1076.95	1078.54	1080.46	1083.70	1080.55
27.5	1069.69	1071.41	1073.35	1076.67	1073.56
28.0	1062.44	1063.89	1065.93	1069.42	1066.36
28.5	1055.03	1056.52	1058.65	1062.18	1059.18
29.0	1047.54	1048.94	1051.21	1054.83	1051.91
29.5	1039.94	1041.18	1043.58	1047.18	1044.38
30.0	1032.26	1033.48	1035.95	1039.68	1037.02
30.5	1024.48	1025.69	1028.24	1031.99	1029.44
31.0	1016.49	1017.60	1020.07	1024.10	1021.62
31.5	1008.53	1009.55	1012.30	1016.21	1013.99
32.0	1000.47	1001.38	1004.28	1008.32	1006.32
32.5	992.24	993.02	995.94	1000.28	998.27
33.0	984.14	984.76	987.80	992.12	990.31
33.5	975.62	976.36	979.46	983.87	982.28
34.0	967.07	967.74	970.93	975.56	974.02
34.5	958.64	959.20	962.47	967.26	965.86
35.0	949.96	950.46	953.90	958.75	957.53
35.5	941.12	941.56	945.12	950.16	949.02
36.0	932.43	932.76	936.29	941.43	940.74
36.5	923.65	923.87	927.72	932.76	932.31
37.0	914.44	914.76	918.69	923.96	923.81
37.5	905.30	905.70	909.70	915.12	915.15
38.0	896.35	896.53	900.73	906.33	906.66
38.5	886.97	887.24	891.57	897.35	897.89
39.0	877.75	877.95	882.36	888.37	889.15
39.5	868.48	868.49	873.12	879.30	880.32
40.0	858.90	858.94	863.61	870.13	871.46
40.5	849.34	849.44	854.33	860.99	862.62
41.0	839.87	839.87	844.92	851.84	853.68
41.5	830.14	829.99	835.32	842.46	844.68
42.0	820.32	820.27	825.77	833.22	835.83
42.5	810.77	810.55	816.14	823.90	826.80
43.0	800.65	800.42	806.40	814.48	817.84
43.5	790.81	790.55	796.82	805.10	808.72
44.0	780.79	780.51	787.07	795.66	799.74
44.5	770.43	770.23	777.11	786.12	790.49
45.0	760.47	760.24	767.32	776.77	781.38
45.5	750.27	749.97	757.50	767.36	772.27
46.0	740.01	739.63	747.54	757.63	762.90
46.5	729.78	729.34	737.63	748.18	753.80
47.0	719.48	719.02	727.77	738.63	744.55
47.5	708.94	708.44	717.60	728.95	735.22
48.0	698.57	697.96	707.65	719.26	725.91
48.5	688.07	687.42	697.65	709.69	716.68
49.0	677.46	676.73	687.41	699.91	707.22
49.5	666.95	666.11	677.44	690.26	697.82
50.0	656.28	655.42	667.27	680.62	688.43
50.5	645.43	644.49	657.01	670.73	678.86
51.0	634.84	633.87	646.93	661.09	669.56
51.5	624.15	623.06	636.90	651.35	660.07
52.0	613.20	612.03	626.54	641.46	650.52
52.5	602.39	601.21	616.44	631.71	641.05
53.0	591.46	590.25	606.18	621.95	631.51
53.5	580.53	579.22	595.90	612.05	621.88
54.0	569.66	568.28	585.79	602.31	612.36
54.5	558.64	557.32	575.58	592.51	602.82

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**CANDELA TABULATION - (Cont.)**

55.0	547.48	546.10	565.16	582.57	593.00
55.5	536.58	535.20	555.15	572.82	583.32
56.0	525.51	524.21	544.97	563.11	573.94
56.5	514.26	512.93	534.69	553.14	563.89
57.0	503.25	501.90	524.58	543.32	554.18
57.5	492.19	490.86	514.45	533.54	544.44
58.0	481.05	479.65	504.23	523.66	534.62
58.5	469.89	468.77	494.14	513.84	524.97
59.0	458.74	457.75	484.10	504.06	515.22
59.5	447.43	446.57	473.92	494.12	505.32
60.0	436.34	435.72	464.07	484.46	495.79
60.5	425.18	424.78	454.03	474.63	486.14
61.0	413.92	413.63	443.94	464.71	476.34
61.5	402.64	402.87	434.13	454.97	466.74
62.0	391.52	392.03	424.33	445.33	457.16
62.5	380.31	381.11	414.38	435.49	447.41
63.0	369.07	370.54	404.65	425.88	437.90
63.5	357.95	359.82	395.04	416.30	428.42
64.0	346.74	349.13	385.28	406.66	418.91
64.5	335.69	338.70	375.71	397.08	409.54
65.0	324.62	328.36	366.14	387.67	400.37
65.5	313.45	317.82	356.60	378.11	391.03
66.0	302.66	307.72	347.20	368.80	381.96
66.5	291.80	297.56	337.93	359.61	373.13
67.0	280.92	287.43	328.49	350.42	364.23
67.5	270.34	277.53	319.33	341.49	355.63
68.0	259.88	267.78	310.30	332.71	347.38
68.5	249.32	258.04	301.27	323.88	339.33
69.0	239.10	248.52	292.40	315.41	331.51
69.5	229.09	239.22	283.54	307.23	323.78
70.0	218.98	229.83	274.58	299.15	315.87
70.5	209.32	220.83	265.90	291.51	308.11
71.0	199.66	211.93	257.40	283.82	300.16
71.5	190.29	203.09	248.84	276.09	291.31
72.0	181.16	194.52	240.56	268.46	282.64
72.5	172.16	186.16	232.36	260.41	273.25
73.0	163.31	177.85	224.29	251.73	262.90
73.5	154.88	169.79	216.39	243.12	252.48
74.0	146.40	161.94	208.67	233.73	241.90
74.5	138.27	154.20	201.35	223.66	231.19
75.0	130.65	146.74	194.22	213.77	220.88
75.5	123.04	139.50	187.11	203.63	211.07
76.0	115.57	132.19	179.94	193.56	200.23
76.5	108.40	125.18	172.63	184.26	189.52
77.0	101.59	118.50	165.10	174.42	178.40
77.5	94.86	111.77	157.03	163.98	167.14
78.0	88.44	105.34	149.03	153.56	156.35
78.5	82.27	99.11	140.59	143.17	145.54
79.0	76.19	93.01	132.01	132.73	134.77
79.5	70.59	87.11	124.06	122.62	124.16
80.0	65.07	81.42	115.82	112.54	113.84
80.5	59.71	75.93	107.33	102.51	103.56
81.0	54.73	70.63	98.49	92.93	94.00
81.5	49.99	65.59	89.82	83.68	84.62
82.0	45.27	60.71	81.08	74.34	75.36
82.5	40.93	56.04	72.48	65.71	66.87

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**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	36.75	51.22	64.09	57.49	58.68
<b>83.5</b>	32.81	46.34	55.82	49.62	50.95
<b>84.0</b>	29.15	41.58	47.97	42.39	43.94
<b>84.5</b>	25.71	36.90	40.41	35.88	37.44
<b>85.0</b>	22.37	32.11	33.21	29.82	31.35
<b>85.5</b>	19.28	27.33	26.78	24.55	25.99
<b>86.0</b>	16.37	22.69	20.92	19.71	21.10
<b>86.5</b>	13.63	18.19	15.70	15.43	16.63
<b>87.0</b>	11.14	14.08	11.41	11.74	11.98
<b>87.5</b>	8.97	10.25	7.90	7.41	6.44
<b>88.0</b>	6.88	7.00	4.90	3.20	2.04
<b>88.5</b>	4.93	4.39	2.51	1.45	0.94
<b>89.0</b>	3.02	2.41	1.22	0.83	0.59
<b>89.5</b>	1.10	0.92	0.45	0.33	0.24
<b>90.0</b>	0.13	0.27	0.10	0.06	0.04

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	463.92	N.A.	14.20
0-30	973.92	N.A.	29.90
0-40	1570.28	N.A.	48.20
0-60	2668.82	N.A.	81.90
0-80	3220.29	N.A.	98.80
0-90	3260.41	N.A.	100.00
10-90	3139.51	N.A.	96.30
20-40	1106.35	N.A.	33.90
20-50	1699.01	N.A.	52.10
40-70	1456.99	N.A.	44.70
60-80	551.47	N.A.	16.90
70-80	193.02	N.A.	5.90
80-90	40.13	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3260.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	120.90
10-20	343.02
20-30	510.00
30-40	596.35
40-50	592.66
50-60	505.88
60-70	358.44
70-80	193.02
80-90	40.13
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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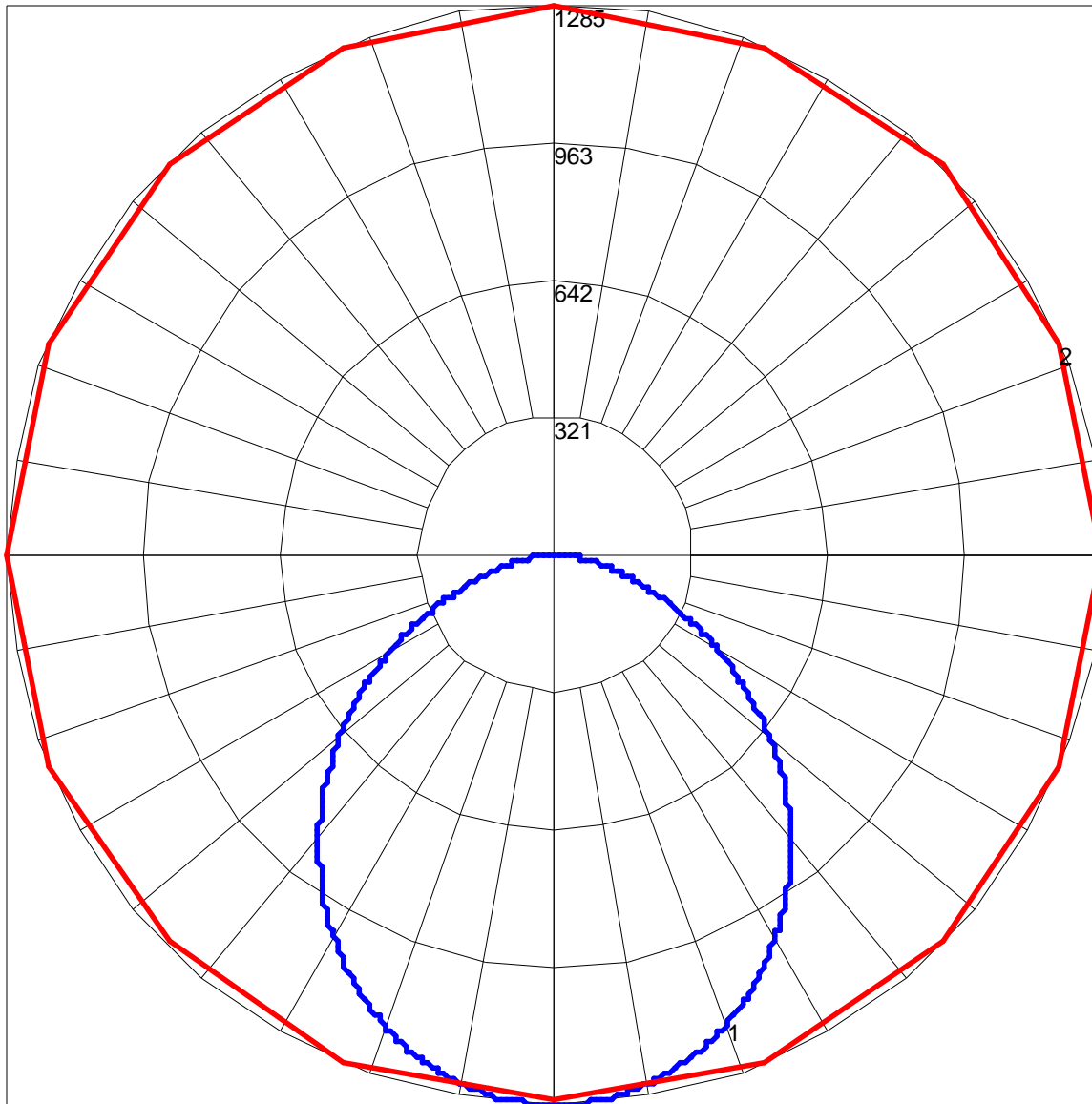
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26



POLAR GRAPH



Maximum Candela = 1284.65 Located At Horizontal Angle = 22.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)