



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-SO-CW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-SUS-LED4-SO-CW
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] LEDS WITH OPTICS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	33.4
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	179.146	185.878	202.224	236.082	286.682	358.644	431.948	452.540	386.848	264.176
100	1059.718	1082.576	1111.924	1151.458	1165.670	1104.664	934.318	701.030	468.556	270.622
105	1283.986	1278.068	1243.594	1186.658	1086.844	947.408	785.620	625.658	471.724	323.422
110	1266.716	1256.090	1220.670	1156.188	1057.166	932.580	791.384	648.230	517.220	399.366
115	1209.296	1197.196	1167.408	1104.400	1021.768	920.854	803.440	684.508	572.704	478.698
120	1173.436	1164.152	1134.232	1084.248	1013.012	926.222	828.960	727.914	631.114	548.702
125	1153.482	1145.760	1116.830	1073.710	1015.124	941.600	858.286	769.406	686.488	611.578
130	1129.546	1122.660	1099.098	1057.584	1006.742	946.132	872.674	798.248	726.638	663.476
135	1088.164	1080.750	1060.818	1025.178	982.410	929.830	868.846	807.092	748.858	698.632
140	1024.694	1015.982	996.622	969.958	937.156	895.598	847.990	803.088	758.846	720.390
145	948.442	942.546	928.114	908.688	884.884	855.250	823.878	792.000	760.078	730.246
150	882.046	877.448	868.494	856.856	842.820	823.680	802.780	780.098	757.460	732.754
155	835.934	834.394	828.278	819.874	810.744	798.864	784.300	767.602	750.684	731.610
160	799.216	800.866	795.454	790.592	784.542	776.380	765.798	754.468	742.500	729.256
165	769.120	768.944	765.908	762.762	758.604	753.852	747.494	740.674	733.678	726.462
170	745.382	744.480	741.224	740.850	739.024	737.308	734.954	731.698	729.124	726.154
175	732.006	729.586	730.444	729.124	728.662	728.772	729.366	728.684	728.244	727.474
180	726.000	726.000	726.000	726.000	726.000	726.000	726.000	726.000	726.000	726.000

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	156.640	98.538	71.566	59.730	55.154	54.604	50.402	37.796	31.372
100	200.860	149.996	130.856	123.530	117.546	107.008	93.236	77.858	70.114
105	263.296	215.424	192.588	180.884	171.490	158.598	140.360	123.442	116.248
110	325.798	287.276	262.526	248.512	234.520	214.368	191.752	174.460	167.596
115	405.416	364.408	342.408	322.190	298.760	271.282	246.532	229.482	223.278
120	485.958	444.202	411.444	383.174	356.466	326.458	301.070	284.702	278.916
125	554.312	512.578	478.654	446.226	408.628	378.224	356.642	341.176	336.182
130	613.096	572.462	537.020	501.732	466.774	432.916	409.992	397.936	393.558
135	656.084	618.750	583.726	547.602	513.326	484.374	462.220	449.372	445.676
140	684.442	650.232	617.056	582.560	551.606	525.404	506.528	495.506	492.382
145	699.424	669.966	639.606	610.082	583.946	562.848	547.580	539.242	536.910
150	707.784	682.704	657.646	633.886	614.064	597.982	587.488	581.394	579.678
155	711.766	693.440	674.124	657.756	643.984	631.972	624.756	621.500	620.356
160	715.682	703.626	691.174	680.196	671.000	662.398	658.988	656.744	656.656
165	719.422	711.722	705.760	699.534	693.770	689.216	687.412	685.696	684.904
170	721.908	719.862	717.244	713.878	711.062	707.718	707.938	707.256	707.564
175	726.022	725.560	723.910	722.788	721.908	719.246	719.730	720.104	719.576
180	726.000	726.000	726.000	726.000	726.000	726.000	726.000	726.000	726.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	843.34	N.A.	22.70
90-120	1459.39	N.A.	39.20
90-130	2077.54	N.A.	55.80
90-150	3107.72	N.A.	83.50
90-180	3720.35	N.A.	100.00
110-180	2877.01	N.A.	77.30
0-180	3720.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	250.18
100-110	593.16
110-120	616.05
120-130	618.15
130-140	568.57
140-150	461.61
150-160	337.34
160-170	206.02
170-180	69.27

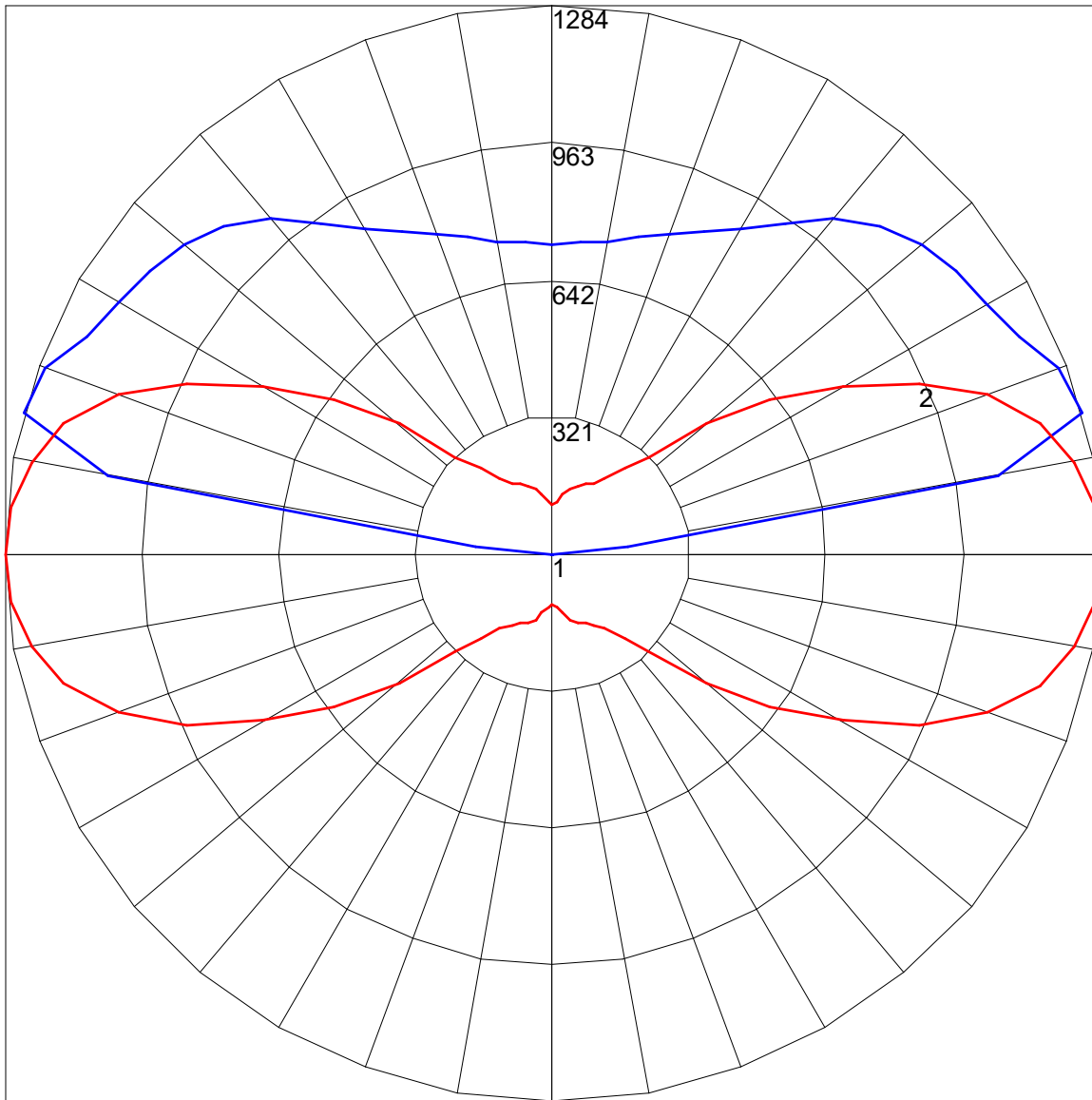
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1283.986 Located At Horizontal Angle = 0, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)