



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-SUS-LED4-MO-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	2756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	24
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	132.731	137.719	149.830	174.915	212.405	265.723	320.034	335.291	286.619	195.730
100	785.155	802.090	823.835	853.126	863.655	818.456	692.245	519.399	347.157	200.506
105	951.317	946.932	921.390	879.206	805.253	701.943	582.073	463.556	349.505	239.626
110	938.521	930.648	904.405	856.630	783.264	690.957	586.344	480.279	383.213	295.894
115	895.978	887.013	864.943	818.260	757.037	682.269	595.276	507.158	424.322	354.672
120	869.409	862.531	840.363	803.329	750.550	686.246	614.184	539.318	467.598	406.538
125	854.625	848.904	827.469	795.521	752.115	697.640	635.912	570.060	508.625	453.124
130	836.891	831.789	814.332	783.574	745.904	700.998	646.572	591.429	538.373	491.575
135	806.231	800.737	785.970	759.564	727.876	688.919	643.736	597.982	554.836	517.623
140	759.205	752.750	738.406	718.651	694.347	663.557	628.283	595.015	562.236	533.743
145	702.709	698.341	687.648	673.255	655.619	633.662	610.419	586.800	563.149	541.046
150	653.516	650.109	643.475	634.852	624.453	610.272	594.787	577.982	561.209	542.904
155	619.351	618.210	613.679	607.452	600.688	591.886	581.095	568.723	556.189	542.056
160	592.146	593.369	589.359	585.757	581.274	575.227	567.387	558.992	550.125	540.312
165	569.848	569.718	567.468	565.137	562.057	558.536	553.825	548.772	543.589	538.242
170	552.260	551.592	549.180	548.902	547.550	546.278	544.534	542.122	540.215	538.014
175	542.350	540.557	541.193	540.215	539.872	539.954	540.394	539.889	539.563	538.992
180	537.900	537.900	537.900	537.900	537.900	537.900	537.900	537.900	537.900	537.900

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	116.056	73.008	53.024	44.254	40.864	40.457	37.343	28.003	23.244
100	148.819	111.133	96.952	91.524	87.091	79.283	69.079	57.686	51.948
105	195.078	159.610	142.690	134.019	127.058	117.507	103.994	91.459	86.129
110	241.387	212.845	194.508	184.125	173.758	158.827	142.071	129.259	124.173
115	300.376	269.993	253.693	238.713	221.354	200.995	182.658	170.025	165.429
120	360.051	329.113	304.843	283.897	264.109	241.876	223.065	210.938	206.651
125	410.695	379.774	354.639	330.613	302.756	280.230	264.239	252.780	249.080
130	454.248	424.142	397.883	371.738	345.837	320.751	303.767	294.834	291.591
135	486.099	458.437	432.488	405.723	380.328	358.877	342.463	332.944	330.205
140	507.109	481.763	457.182	431.624	408.690	389.277	375.291	367.125	364.810
145	518.210	496.384	473.890	452.015	432.651	417.019	405.707	399.529	397.801
150	524.404	505.822	487.256	469.652	454.966	443.050	435.275	430.760	429.489
155	527.354	513.776	499.465	487.337	477.134	468.234	462.887	460.475	459.627
160	530.255	521.323	512.097	503.963	497.150	490.777	488.250	486.588	486.522
165	533.026	527.321	522.904	518.291	514.020	510.646	509.310	508.038	507.452
170	534.868	533.352	531.413	528.919	526.832	524.355	524.518	524.012	524.241
175	537.916	537.574	536.351	535.520	534.868	532.896	533.254	533.532	533.140
180	537.900	537.900	537.900	537.900	537.900	537.900	537.900	537.900	537.900

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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	624.84	N.A.	22.70
90-120	1081.28	N.A.	39.20
90-130	1539.27	N.A.	55.80
90-150	2302.54	N.A.	83.50
90-180	2756.44	N.A.	100.00
110-180	2131.61	N.A.	77.30
0-180	2756.44	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	185.36
100-110	439.48
110-120	456.44
120-130	457.99
130-140	421.26
140-150	342.01
150-160	249.94
160-170	152.64
170-180	51.33

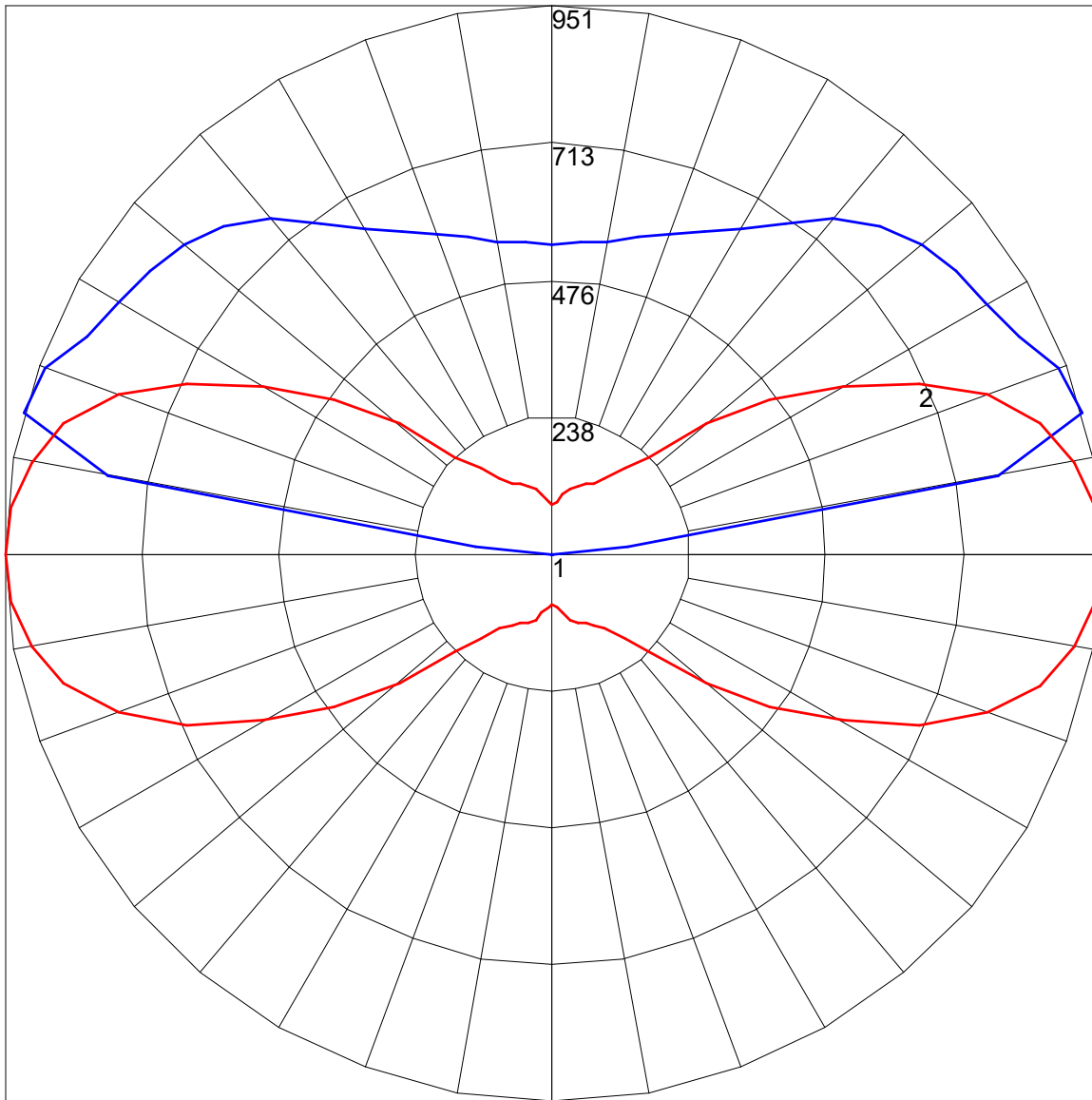
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 951.317 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.)