



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507504R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/4/2015
 [MANUFACTURER] PRUDENTIAL LTG.
 [LUMEN CATEGORY] BIO-SUS-LED4-MO-CW
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] LEDS WITH OPTICS
 [BALLAST CATEGORY] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMP POSITION] 0,0
 [LAMP CATEGORY] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	27
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

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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

	0	5	10	15	20	25	30	35	40	45
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	126.216	130.959	142.476	166.330	201.980	252.681	304.327	318.835	272.552	186.124
100	746.619	762.724	783.401	811.254	821.267	778.286	658.269	493.907	330.119	190.665
105	904.626	900.457	876.168	836.054	765.731	667.492	553.505	440.804	332.351	227.865
110	892.459	884.972	860.017	814.587	744.821	657.045	557.566	456.707	364.405	281.371
115	852.004	843.479	822.492	778.100	719.882	648.783	566.060	482.267	403.496	337.264
120	826.739	820.198	799.118	763.902	713.713	652.565	584.040	512.848	444.648	386.585
125	812.680	807.240	786.857	756.477	715.201	663.400	604.701	542.081	483.662	430.884
130	795.816	790.965	774.364	745.116	709.295	666.593	614.838	562.402	511.949	467.449
135	766.661	761.437	747.394	722.284	692.152	655.107	612.141	568.633	527.604	492.218
140	721.943	715.805	702.165	683.379	660.269	630.989	597.447	565.812	534.641	507.547
145	668.220	664.066	653.898	640.212	623.441	602.562	580.459	558.000	535.509	514.491
150	621.441	618.202	611.893	603.694	593.805	580.320	565.595	549.614	533.665	516.258
155	588.953	587.868	583.559	577.638	571.206	562.836	552.575	540.810	528.891	515.452
160	563.084	564.246	560.433	557.008	552.745	546.995	539.539	531.557	523.125	513.794
165	541.880	541.756	539.617	537.400	534.471	531.123	526.643	521.838	516.909	511.825
170	525.155	524.520	522.226	521.962	520.676	519.467	517.808	515.514	513.701	511.608
175	515.731	514.026	514.631	513.701	513.375	513.453	513.871	513.391	513.081	512.538
180	511.500	511.500	511.500	511.500	511.500	511.500	511.500	511.500	511.500	511.500

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
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	110.360	69.424	50.421	42.082	38.858	38.471	35.510	26.629	22.103
100	141.515	105.679	92.194	87.032	82.816	75.392	65.689	54.854	49.398
105	185.504	151.776	135.687	127.441	120.822	111.739	98.890	86.970	81.902
110	229.539	202.399	184.961	175.088	165.230	151.032	135.098	122.915	118.079
115	285.634	256.742	241.242	226.997	210.490	191.130	173.693	161.680	157.309
120	342.379	312.960	289.881	269.963	251.146	230.004	212.117	200.585	196.509
125	390.538	361.134	337.233	314.386	287.897	266.476	251.270	240.374	236.855
130	431.954	403.325	378.355	353.493	328.863	305.009	288.858	280.364	277.279
135	462.241	435.937	411.261	385.810	361.661	341.263	325.655	316.603	313.999
140	482.220	458.118	434.744	410.440	388.631	370.171	356.872	349.106	346.905
145	492.776	472.021	450.631	429.830	411.416	396.552	385.795	379.920	378.277
150	498.666	480.996	463.341	446.601	432.636	421.305	413.912	409.618	408.409
155	501.471	488.560	474.951	463.419	453.716	445.253	440.169	437.875	437.069
160	504.230	495.736	486.963	479.229	472.750	466.689	464.287	462.706	462.644
165	506.865	501.440	497.240	492.853	488.792	485.584	484.313	483.104	482.546
170	508.617	507.175	505.331	502.959	500.975	498.619	498.774	498.294	498.511
175	511.515	511.190	510.027	509.237	508.617	506.741	507.082	507.346	506.974
180	511.500	511.500	511.500	511.500	511.500	511.500	511.500	511.500	511.500

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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	594.17	N.A.	22.70
90-120	1028.21	N.A.	39.20
90-130	1463.72	N.A.	55.80
90-150	2189.53	N.A.	83.50
90-180	2621.16	N.A.	100.00
110-180	2026.99	N.A.	77.30
0-180	2621.16	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	176.26
100-110	417.91
110-120	434.04
120-130	435.51
130-140	400.58
140-150	325.23
150-160	237.67
160-170	145.15
170-180	48.81

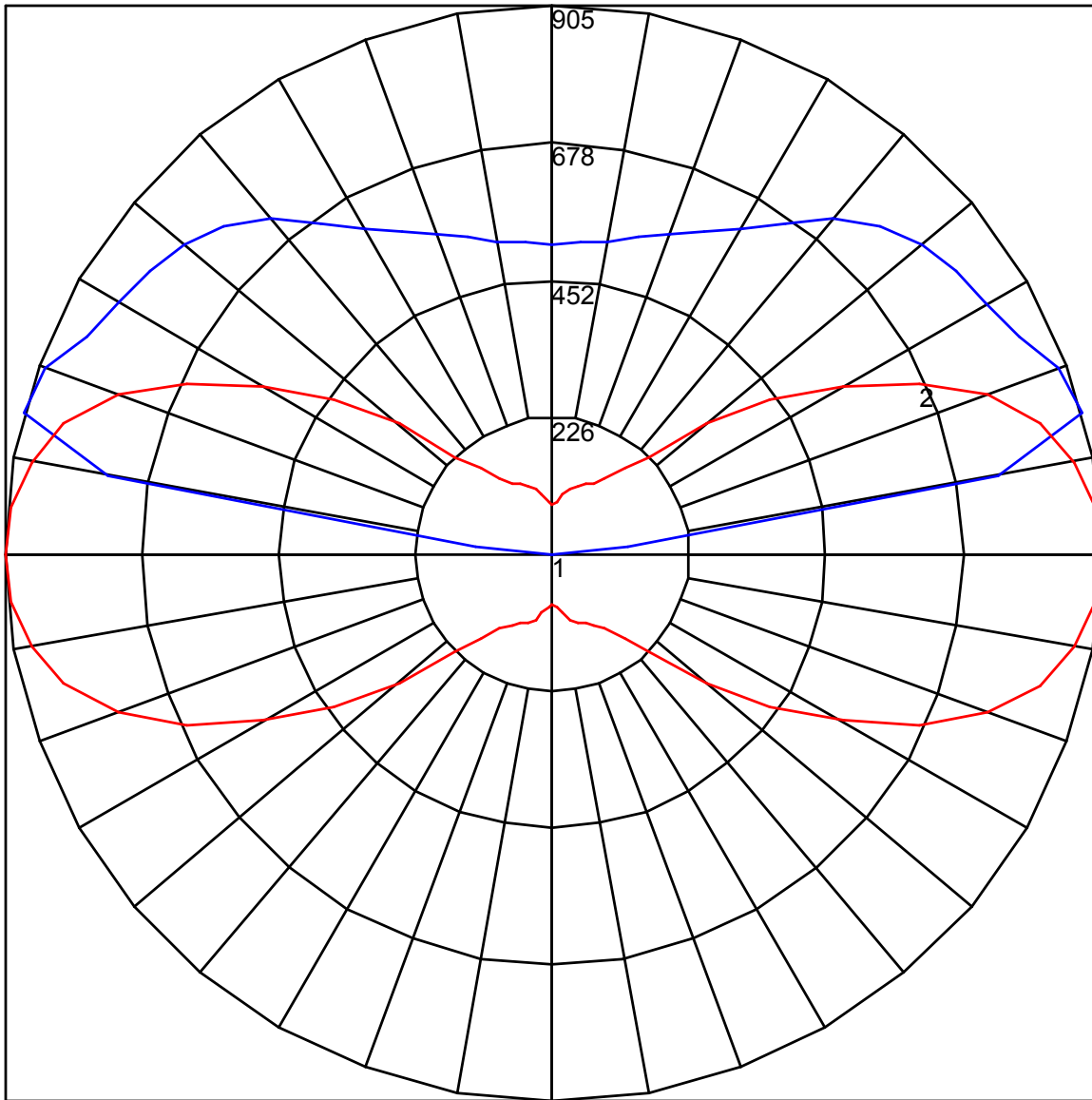
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 904.626 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.)