



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO2-LIN-LED4-MO-SYM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507503R02
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO2-LIN-LED4-MO-SYM
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [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	2573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	29.535	29.518	29.568	29.634	29.733	29.898	30.162	30.442	30.789	31.185
100	66.148	66.247	66.511	66.874	67.567	68.310	69.184	70.257	71.527	73.062
105	112.975	113.124	113.569	114.675	115.797	117.232	119.311	121.572	124.261	127.462
110	167.491	167.557	168.366	169.917	171.600	174.355	177.243	181.186	185.526	190.261
115	227.617	227.452	228.772	230.422	233.260	236.659	241.329	246.411	252.400	258.703
120	288.106	288.024	289.624	291.852	295.251	299.887	305.382	311.157	319.209	327.063
125	354.651	354.420	356.218	359.122	363.214	368.692	375.573	383.196	391.660	400.471
130	431.343	430.947	432.729	437.464	441.111	447.810	455.317	464.029	473.253	483.549
135	515.476	514.998	516.862	522.175	525.838	534.220	541.447	552.288	560.604	571.824
140	605.929	605.401	607.002	611.391	617.331	624.492	636.669	642.411	652.888	665.659
145	702.207	701.382	702.735	706.612	716.644	720.093	728.277	741.427	747.780	759.033
150	800.893	800.217	801.042	804.886	811.206	821.238	824.901	833.316	843.628	856.152
155	898.062	897.897	898.441	901.560	906.856	913.093	923.059	925.666	933.916	941.985
160	989.356	989.472	989.356	991.798	995.659	999.949	1005.246	1013.727	1020.508	1022.422
165	1068.787	1068.688	1068.177	1069.860	1072.335	1075.074	1078.605	1082.119	1086.195	1090.963
170	1131.141	1130.745	1130.019	1130.695	1131.817	1133.352	1135.414	1136.850	1138.929	1140.678
175	1170.510	1170.064	1169.569	1169.602	1169.998	1170.906	1172.226	1172.622	1173.183	1173.414
180	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050

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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CANDELA TABULATION - (Cont.)

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	31.614	32.109	32.703	33.379	34.039	34.683	35.244	35.590	35.739
100	74.629	76.494	78.457	80.470	82.269	83.836	85.140	86.064	86.410
105	130.845	134.310	137.923	141.520	144.853	147.675	149.902	151.486	152.080
110	195.442	200.607	205.936	211.117	215.902	219.879	223.014	225.192	226.017
115	265.485	272.299	279.213	285.994	292.198	297.231	301.125	303.880	304.854
120	335.098	343.398	351.928	360.310	367.719	373.527	378.180	381.480	382.618
125	410.041	419.859	429.957	439.444	447.744	454.410	459.739	463.551	464.904
130	495.462	505.593	516.879	527.802	536.101	543.477	549.252	553.377	554.911
135	583.935	595.419	607.117	619.063	626.950	634.425	640.480	644.787	646.387
140	676.219	688.231	702.190	710.193	719.070	726.132	732.154	736.362	737.781
145	770.467	784.608	792.214	801.718	809.968	816.354	821.865	825.792	827.128
150	862.570	872.701	881.809	889.993	898.771	906.262	909.562	911.493	912.384
155	950.416	961.966	968.236	971.602	976.833	981.040	984.654	987.409	988.399
160	1027.933	1033.791	1038.873	1043.311	1047.040	1049.944	1052.964	1055.802	1056.792
165	1097.415	1101.672	1103.437	1103.223	1103.817	1104.559	1106.110	1107.480	1107.942
170	1142.262	1144.176	1145.380	1145.760	1145.925	1146.057	1146.948	1147.938	1148.185
175	1173.331	1173.975	1173.810	1172.754	1171.879	1170.988	1171.153	1171.714	1171.896
180	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050	1183.050

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fxt
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	176.85	N.A.	6.90
90-120	436.33	N.A.	17.00
90-130	800.55	N.A.	31.10
90-150	1722.66	N.A.	66.90
90-180	2573.29	N.A.	100.00
110-180	2396.45	N.A.	93.10
0-180	2573.29	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	37.64
100-110	139.21
110-120	259.49
120-130	364.21
130-140	445.50
140-150	476.61
150-160	433.55
160-170	306.24
170-180	110.84

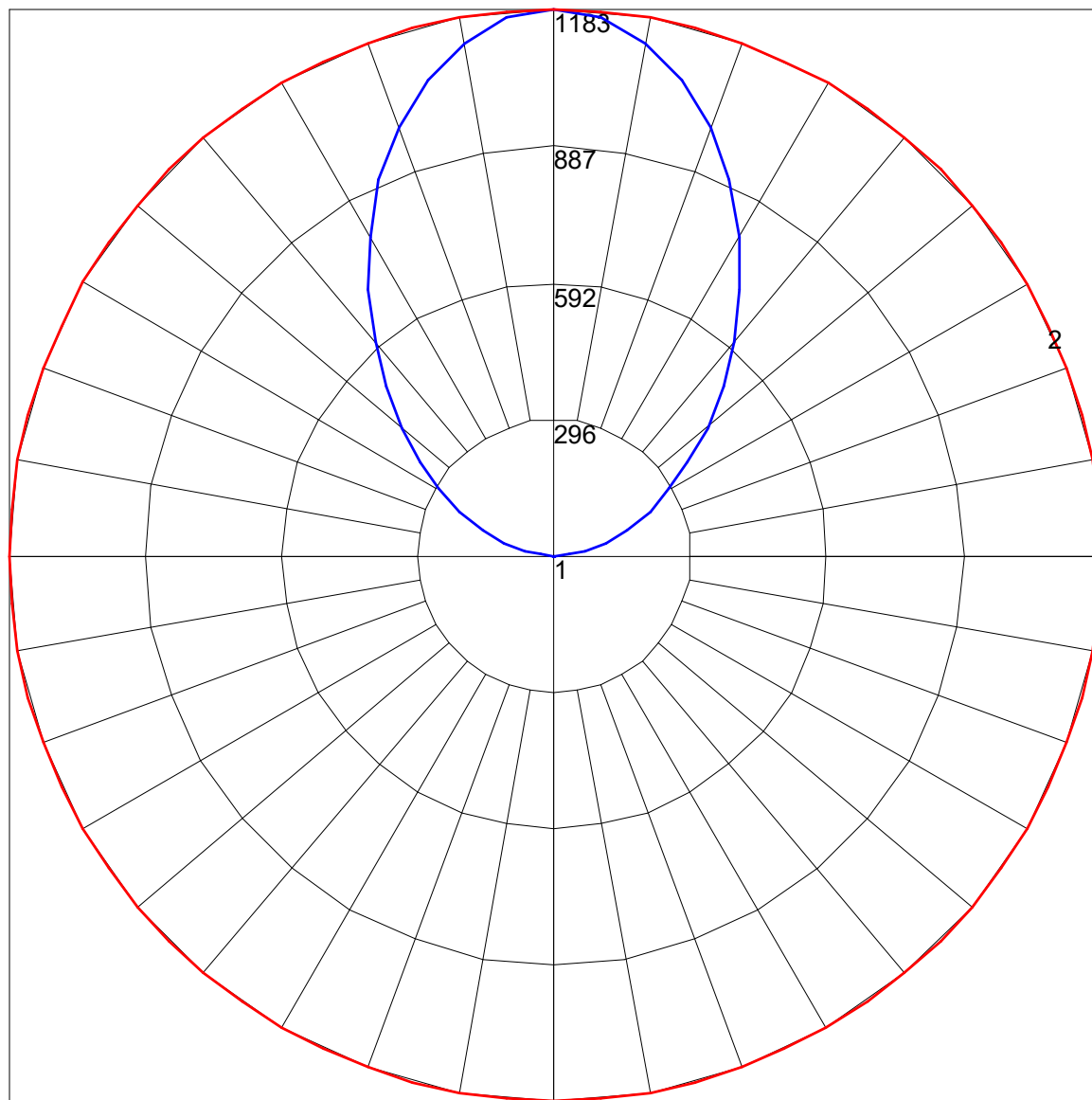
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1183.05 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)