



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507503R02
 [TESTLAB]
 [ISSUEDATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BI2O-LIN-LED4-SO-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]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	39.380	39.358	39.424	39.512	39.644	39.864	40.216	40.590	41.052	41.580
100	88.198	88.330	88.682	89.166	90.090	91.080	92.246	93.676	95.370	97.416
105	150.634	150.832	151.426	152.900	154.396	156.310	159.082	162.096	165.682	169.950
110	223.322	223.410	224.488	226.556	228.800	232.474	236.324	241.582	247.368	253.682
115	303.490	303.270	305.030	307.230	311.014	315.546	321.772	328.548	336.534	344.938
120	384.142	384.032	386.166	389.136	393.668	399.850	407.176	414.876	425.612	436.084
125	472.868	472.560	474.958	478.830	484.286	491.590	500.764	510.928	522.214	533.962
130	575.124	574.596	576.972	583.286	588.148	597.080	607.090	618.706	631.004	644.732
135	687.302	686.664	689.150	696.234	701.118	712.294	721.930	736.384	747.472	762.432
140	807.906	807.202	809.336	815.188	823.108	832.656	848.892	856.548	870.518	887.546
145	936.276	935.176	936.980	942.150	955.526	960.124	971.036	988.570	997.040	1012.044
150	1067.858	1066.956	1068.056	1073.182	1081.608	1094.984	1099.868	1111.088	1124.838	1141.536
155	1197.416	1197.196	1197.922	1202.080	1209.142	1217.458	1230.746	1234.222	1245.222	1255.980
160	1319.142	1319.296	1319.142	1322.398	1327.546	1333.266	1340.328	1351.636	1360.678	1363.230
165	1425.050	1424.918	1424.236	1426.480	1429.780	1433.432	1438.140	1442.826	1448.260	1454.618
170	1508.188	1507.660	1506.692	1507.594	1509.090	1511.136	1513.886	1515.800	1518.572	1520.904
175	1560.680	1560.086	1559.426	1559.470	1559.998	1561.208	1562.968	1563.496	1564.244	1564.552
180	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400

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	42.152	42.812	43.604	44.506	45.386	46.244	46.992	47.454	47.652
100	99.506	101.992	104.610	107.294	109.692	111.782	113.520	114.752	115.214
105	174.460	179.080	183.898	188.694	193.138	196.900	199.870	201.982	202.774
110	260.590	267.476	274.582	281.490	287.870	293.172	297.352	300.256	301.356
115	353.980	363.066	372.284	381.326	389.598	396.308	401.500	405.174	406.472
120	446.798	457.864	469.238	480.414	490.292	498.036	504.240	508.640	510.158
125	546.722	559.812	573.276	585.926	596.992	605.880	612.986	618.068	619.872
130	660.616	674.124	689.172	703.736	714.802	724.636	732.336	737.836	739.882
135	778.580	793.892	809.490	825.418	835.934	845.900	853.974	859.716	861.850
140	901.626	917.642	936.254	946.924	958.760	968.176	976.206	981.816	983.708
145	1027.290	1046.144	1056.286	1068.958	1079.958	1088.472	1095.820	1101.056	1102.838
150	1150.094	1163.602	1175.746	1186.658	1198.362	1208.350	1212.750	1215.324	1216.512
155	1267.222	1282.622	1290.982	1295.470	1302.444	1308.054	1312.872	1316.546	1317.866
160	1370.578	1378.388	1385.164	1391.082	1396.054	1399.926	1403.952	1407.736	1409.056
165	1463.220	1468.896	1471.250	1470.964	1471.756	1472.746	1474.814	1476.640	1477.256
170	1523.016	1525.568	1527.174	1527.680	1527.900	1528.076	1529.264	1530.584	1530.914
175	1564.442	1565.300	1565.080	1563.672	1562.506	1561.318	1561.538	1562.286	1562.528
180	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400	1577.400

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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	235.79	N.A.	6.90
90-120	581.78	N.A.	17.00
90-130	1067.4	N.A.	31.10
90-150	2296.88	N.A.	66.90
90-180	3431.06	N.A.	100.00
110-180	3195.27	N.A.	93.10
0-180	3431.06	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	50.19
100-110	185.61
110-120	345.98
120-130	485.62
130-140	594.00
140-150	635.48
150-160	578.07
160-170	408.33
170-180	147.78

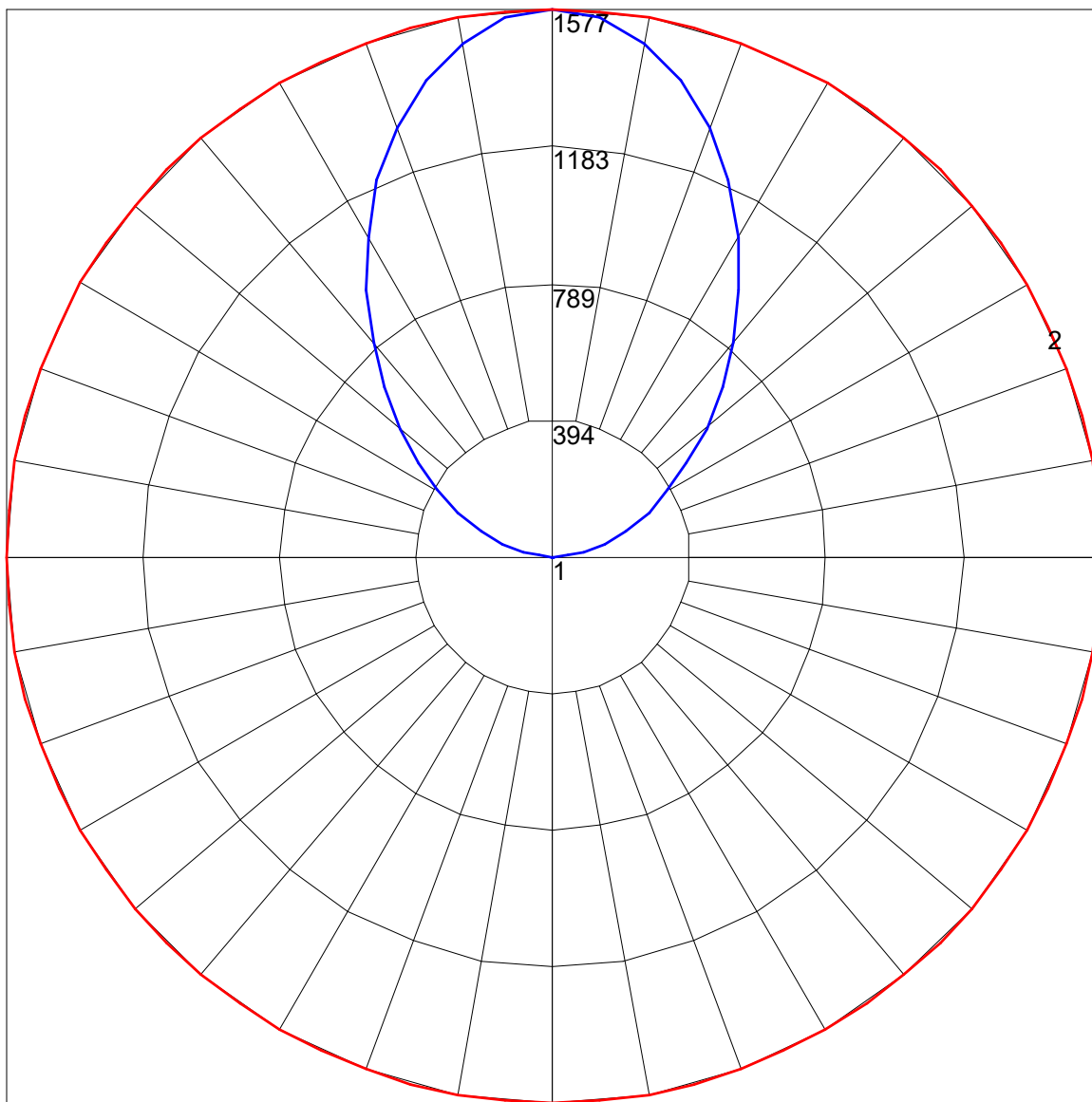
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1577.4 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.)