



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED4-SO-04-SAL-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412304R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-REG3-LED4-SO-04-SAL-D1
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.
 [MORE] DIFFUSED LENS.
 [BALLASTCAT] OSRAM OPTOTRONIC OT/UNV/DIM/L
 [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	2860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	33.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8608	7640	6899
55	7647	6628	5909
65	6826	5839	5174
75	5571	4715	4200
85	4008	3492	3316

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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	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929
5	1295.519	1295.910	1295.672	1295.451	1295.808	1296.896	1297.814	1298.069	1298.001	1297.304
10	1268.659	1268.268	1268.115	1267.503	1267.112	1267.401	1266.772	1265.752	1264.154	1261.825
15	1224.442	1224.629	1223.575	1222.249	1220.821	1219.189	1216.503	1212.882	1209.329	1205.181
20	1165.469	1164.976	1163.463	1160.930	1157.615	1153.671	1148.962	1143.131	1137.113	1130.330
25	1092.233	1091.587	1089.462	1085.484	1080.418	1074.638	1067.413	1059.321	1050.566	1041.114
30	1007.199	1006.519	1004.003	999.073	992.443	984.538	975.460	965.481	954.482	943.262
35	914.668	913.920	910.554	904.553	896.750	887.842	877.200	865.895	853.417	840.446
40	816.323	815.456	811.444	804.950	796.484	786.760	775.591	763.181	750.040	736.865
45	715.360	714.136	710.226	703.477	695.113	685.100	673.744	660.773	648.023	634.899
50	614.210	613.343	609.229	602.735	594.609	584.970	573.801	561.799	549.474	537.846
55	515.491	514.556	510.629	504.594	497.386	488.512	478.516	467.500	457.096	446.828
60	428.910	428.434	424.966	419.696	413.151	405.365	396.338	387.073	378.199	369.529
65	339.065	338.572	335.597	331.160	325.720	319.107	311.763	304.453	297.177	290.003
70	251.515	251.005	248.472	244.936	240.516	235.467	230.010	224.451	218.960	213.571
75	169.456	168.946	167.093	164.560	161.517	158.066	154.309	150.535	146.931	143.412
80	96.934	96.492	95.387	94.010	92.378	90.542	88.502	86.564	84.643	82.875
85	41.055	40.766	40.324	39.797	39.117	38.386	37.621	36.907	36.159	35.768
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929	1307.929
5	1296.403	1295.502	1294.754	1293.428	1292.561	1291.439	1291.269	1291.728	1291.949
10	1259.309	1256.929	1254.651	1252.322	1250.265	1248.599	1247.307	1247.443	1247.494
15	1200.336	1195.729	1191.411	1187.433	1184.339	1181.347	1179.171	1178.678	1178.559
20	1123.003	1115.982	1109.522	1103.793	1099.186	1094.970	1091.468	1090.788	1090.380
25	1031.543	1023.009	1014.373	1007.233	1001.045	995.469	991.712	989.961	989.910
30	931.753	921.179	911.982	903.652	896.461	890.120	885.921	884.221	883.830
35	828.274	816.782	806.820	797.793	789.854	783.173	778.940	776.832	776.424
40	724.064	712.742	702.610	693.328	685.287	678.827	674.815	672.826	672.112
45	622.982	612.187	602.565	593.657	586.177	579.836	576.181	574.175	573.359
50	526.864	517.157	507.960	499.851	493.000	487.849	484.007	482.069	481.661
55	437.495	428.570	420.563	413.372	407.643	403.546	399.925	398.072	398.361
60	359.397	353.549	346.664	340.748	335.818	332.231	329.715	327.845	327.981
65	283.305	277.151	271.728	266.900	263.466	260.117	258.536	257.023	257.006
70	208.573	204.085	199.920	196.775	193.902	191.964	190.434	189.448	189.278
75	140.114	137.326	134.691	132.600	130.968	129.778	128.605	128.027	127.772
80	81.175	79.849	78.557	77.588	76.840	76.160	75.565	75.259	75.072
85	35.326	34.986	34.697	34.476	34.289	34.136	34.017	33.949	33.966
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	460.75	N.A.	16.10
0-30	939.51	N.A.	32.90
0-40	1466.9	N.A.	51.30
0-60	2368.63	N.A.	82.80
0-80	2816.66	N.A.	98.50
0-90	2859.53	N.A.	100.00
10-90	2737.02	N.A.	95.70
20-40	1006.15	N.A.	35.20
20-50	1500.77	N.A.	52.50
40-70	1193.33	N.A.	41.70
60-80	448.03	N.A.	15.70
70-80	156.42	N.A.	5.50
80-90	42.87	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2859.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.51
10-20	338.24
20-30	478.76
30-40	527.39
40-50	494.61
50-60	407.11
60-70	291.61
70-80	156.42
80-90	42.87
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

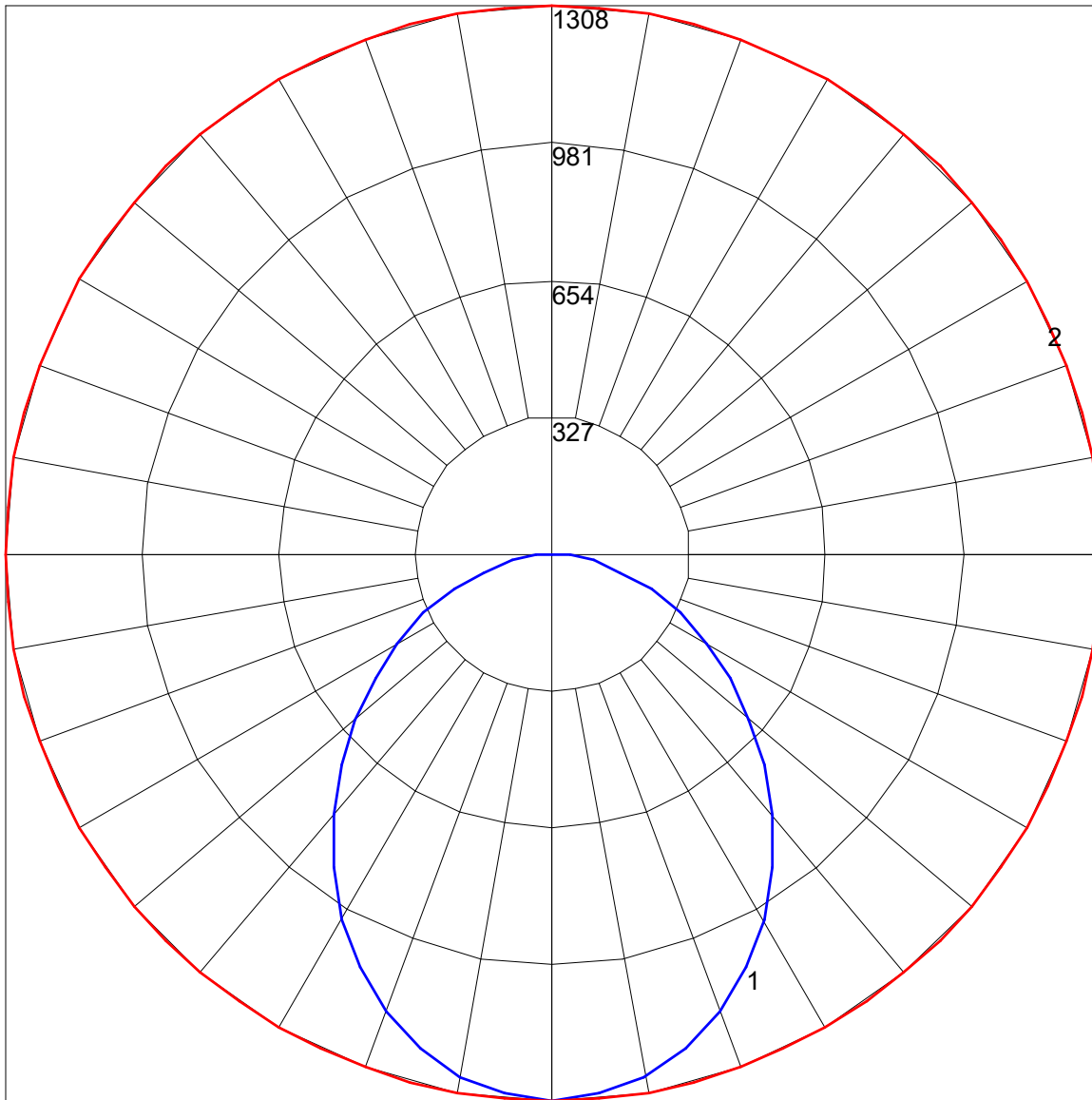
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

POLAR GRAPH



Maximum Candela = 1307.929 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)