



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-FLSH-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-FLSH-LED4SO-04-SAL-TMW-D1-SC-UNV-X1  
 [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	3196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	9620	8538	7711
55	8546	7408	6605
65	7629	6525	5783
75	6226	5269	4695
85	4479	3903	3706

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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>
<b>0</b>	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803
<b>5</b>	1447.933	1448.370	1448.104	1447.857	1448.256	1449.472	1450.498	1450.783	1450.707	1449.928
<b>10</b>	1417.913	1417.476	1417.305	1416.621	1416.184	1416.507	1415.804	1414.664	1412.878	1410.275
<b>15</b>	1368.494	1368.703	1367.525	1366.043	1364.447	1362.623	1359.621	1355.574	1351.603	1346.967
<b>20</b>	1302.583	1302.032	1300.341	1297.510	1293.805	1289.397	1284.134	1277.617	1270.891	1263.310
<b>25</b>	1220.731	1220.009	1217.634	1213.188	1207.526	1201.066	1192.991	1183.947	1174.162	1163.598
<b>30</b>	1125.693	1124.933	1122.121	1116.611	1109.201	1100.366	1090.220	1079.067	1066.774	1054.234
<b>35</b>	1022.276	1021.440	1017.678	1010.971	1002.250	992.294	980.400	967.765	953.819	939.322
<b>40</b>	912.361	911.392	906.908	899.650	890.188	879.320	866.837	852.967	838.280	823.555
<b>45</b>	799.520	798.152	793.782	786.239	776.891	765.700	753.008	738.511	724.261	709.593
<b>50</b>	686.470	685.501	680.903	673.645	664.563	653.790	641.307	627.893	614.118	601.122
<b>55</b>	576.137	575.092	570.703	563.958	555.902	545.984	534.812	522.500	510.872	499.396
<b>60</b>	479.370	478.838	474.962	469.072	461.757	453.055	442.966	432.611	422.693	413.003
<b>65</b>	378.955	378.404	375.079	370.120	364.040	356.649	348.441	340.271	332.139	324.121
<b>70</b>	281.105	280.535	277.704	273.752	268.812	263.169	257.070	250.857	244.720	238.697
<b>75</b>	189.392	188.822	186.751	183.920	180.519	176.662	172.463	168.245	164.217	160.284
<b>80</b>	108.338	107.844	106.609	105.070	103.246	101.194	98.914	96.748	94.601	92.625
<b>85</b>	45.885	45.562	45.068	44.479	43.719	42.902	42.047	41.249	40.413	39.976
<b>90</b>	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>
<b>0</b>	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803	1461.803
<b>5</b>	1448.921	1447.914	1447.078	1445.596	1444.627	1443.373	1443.183	1443.696	1443.943
<b>10</b>	1407.463	1404.803	1402.257	1399.654	1397.355	1395.493	1394.049	1394.201	1394.258
<b>15</b>	1341.552	1336.403	1331.577	1327.131	1323.673	1320.329	1317.897	1317.346	1317.213
<b>20</b>	1255.121	1247.274	1240.054	1233.651	1228.502	1223.790	1219.876	1219.116	1218.660
<b>25</b>	1152.901	1143.363	1133.711	1125.731	1118.815	1112.583	1108.384	1106.427	1106.370
<b>30</b>	1041.371	1029.553	1019.274	1009.964	1001.927	994.840	990.147	988.247	987.810
<b>35</b>	925.718	912.874	901.740	891.651	882.778	875.311	870.580	868.224	867.768
<b>40</b>	809.248	796.594	785.270	774.896	765.909	758.689	754.205	751.982	751.184
<b>45</b>	696.274	684.209	673.455	663.499	655.139	648.052	643.967	641.725	640.813
<b>50</b>	588.848	577.999	567.720	558.657	551.000	545.243	540.949	538.783	538.327
<b>55</b>	488.965	478.990	470.041	462.004	455.601	451.022	446.975	444.904	445.227
<b>60</b>	401.679	395.143	387.448	380.836	375.326	371.317	368.505	366.415	366.567
<b>65</b>	316.635	309.757	303.696	298.300	294.462	290.719	288.952	287.261	287.242
<b>70</b>	233.111	228.095	223.440	219.925	216.714	214.548	212.838	211.736	211.546
<b>75</b>	156.598	153.482	150.537	148.200	146.376	145.046	143.735	143.089	142.804
<b>80</b>	90.725	89.243	87.799	86.716	85.880	85.120	84.455	84.113	83.904
<b>85</b>	39.482	39.102	38.779	38.532	38.323	38.152	38.019	37.943	37.962
<b>90</b>	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	514.96	N.A.	16.10
0-30	1050.04	N.A.	32.90
0-40	1639.48	N.A.	51.30
0-60	2647.29	N.A.	82.80
0-80	3148.03	N.A.	98.50
0-90	3195.94	N.A.	100.00
10-90	3059.02	N.A.	95.70
20-40	1124.52	N.A.	35.20
20-50	1677.33	N.A.	52.50
40-70	1333.73	N.A.	41.70
60-80	500.74	N.A.	15.70
70-80	174.82	N.A.	5.50
80-90	47.91	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	3195.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.92
10-20	378.04
20-30	535.09
30-40	589.44
40-50	552.80
50-60	455.01
60-70	325.92
70-80	174.82
80-90	47.91
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

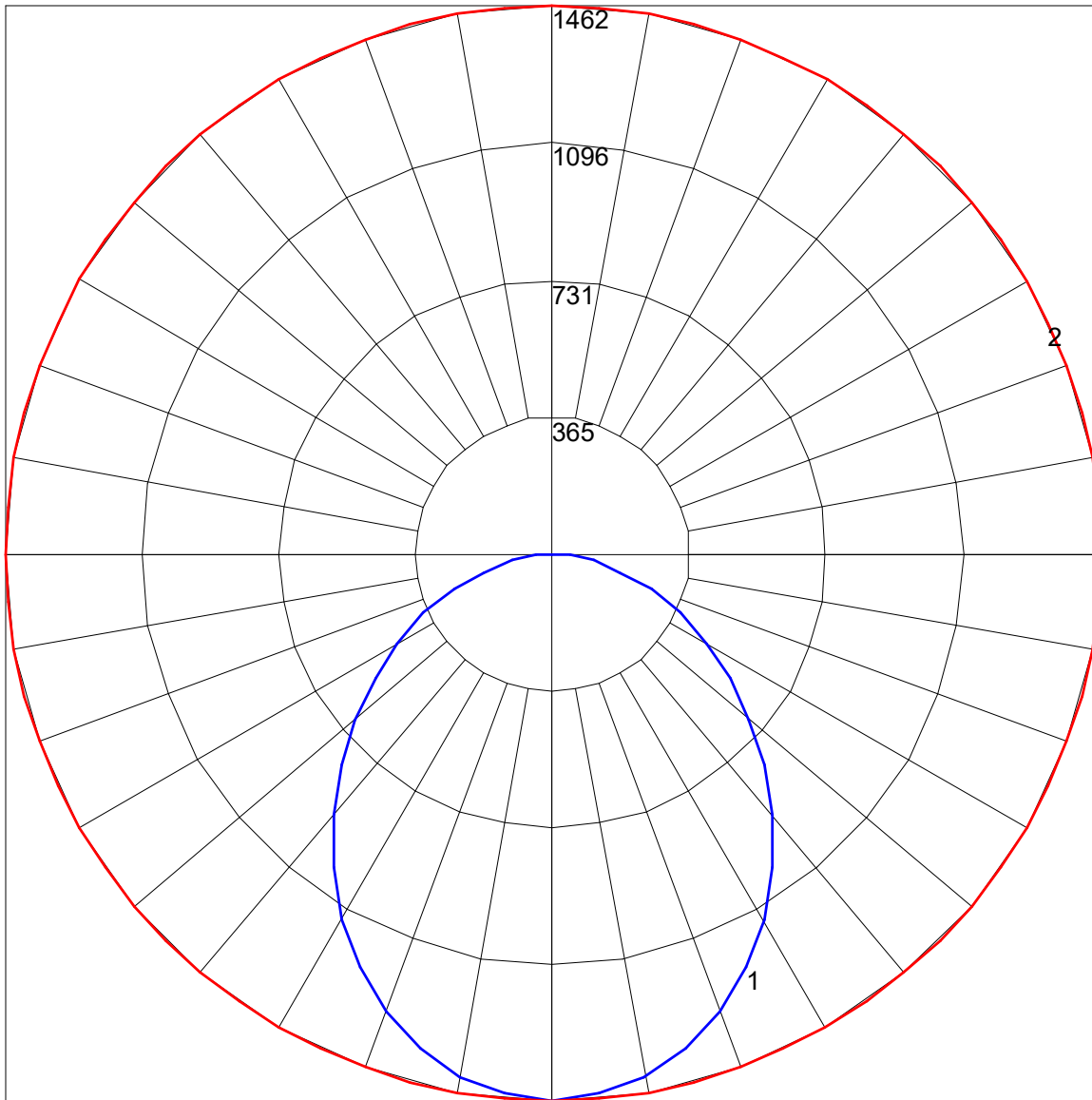
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1461.803 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.)