



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-FLSH-LED4-HO-04-SAL-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041412304R01  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/5/2014  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] BIO-FLSH-LED4-HO-04-SAL-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.  
 [ INPUT] 120VAC, 48W  
 [ \_TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	48
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13165	11684	10552
55	11695	10137	9038
65	10440	8930	7914
75	8520	7210	6424
85	6130	5340	5071

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362
<b>5</b>	1981.382	1981.980	1981.616	1981.278	1981.824	1983.488	1984.892	1985.282	1985.178	1984.112
<b>10</b>	1940.302	1939.704	1939.470	1938.534	1937.936	1938.378	1937.416	1935.856	1933.412	1929.850
<b>15</b>	1872.676	1872.962	1871.350	1869.322	1867.138	1864.642	1860.534	1854.996	1849.562	1843.218
<b>20</b>	1782.482	1781.728	1779.414	1775.540	1770.470	1764.438	1757.236	1748.318	1739.114	1728.740
<b>25</b>	1670.474	1669.486	1666.236	1660.152	1652.404	1643.564	1632.514	1620.138	1606.748	1592.292
<b>30</b>	1540.422	1539.382	1535.534	1527.994	1517.854	1505.764	1491.880	1476.618	1459.796	1442.636
<b>35</b>	1398.904	1397.760	1392.612	1383.434	1371.500	1357.876	1341.600	1324.310	1305.226	1285.388
<b>40</b>	1248.494	1247.168	1241.032	1231.100	1218.152	1203.280	1186.198	1167.218	1147.120	1126.970
<b>45</b>	1094.080	1092.208	1086.228	1075.906	1063.114	1047.800	1030.432	1010.594	991.094	971.022
<b>50</b>	939.380	938.054	931.762	921.830	909.402	894.660	877.578	859.222	840.372	822.588
<b>55</b>	788.398	786.968	780.962	771.732	760.708	747.136	731.848	715.000	699.088	683.384
<b>60</b>	655.980	655.252	649.948	641.888	631.878	619.970	606.164	591.994	578.422	565.162
<b>65</b>	518.570	517.816	513.266	506.480	498.160	488.046	476.814	465.634	454.506	443.534
<b>70</b>	384.670	383.890	380.016	374.608	367.848	360.126	351.780	343.278	334.880	326.638
<b>75</b>	259.168	258.388	255.554	251.680	247.026	241.748	236.002	230.230	224.718	219.336
<b>80</b>	148.252	147.576	145.886	143.780	141.284	138.476	135.356	132.392	129.454	126.750
<b>85</b>	62.790	62.348	61.672	60.866	59.826	58.708	57.538	56.446	55.302	54.704
<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**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362	2000.362
<b>5</b>	1982.734	1981.356	1980.212	1978.184	1976.858	1975.142	1974.882	1975.584	1975.922
<b>10</b>	1926.002	1922.362	1918.878	1915.316	1912.170	1909.622	1907.646	1907.854	1907.932
<b>15</b>	1835.808	1828.762	1822.158	1816.074	1811.342	1806.766	1803.438	1802.684	1802.502
<b>20</b>	1717.534	1706.796	1696.916	1688.154	1681.108	1674.660	1669.304	1668.264	1667.640
<b>25</b>	1577.654	1564.602	1551.394	1540.474	1531.010	1522.482	1516.736	1514.058	1513.980
<b>30</b>	1425.034	1408.862	1394.796	1382.056	1371.058	1361.360	1354.938	1352.338	1351.740
<b>35</b>	1266.772	1249.196	1233.960	1220.154	1208.012	1197.794	1191.320	1188.096	1187.472
<b>40</b>	1107.392	1090.076	1074.580	1060.384	1048.086	1038.206	1032.070	1029.028	1027.936
<b>45</b>	952.796	936.286	921.570	907.946	896.506	886.808	881.218	878.150	876.902
<b>50</b>	805.792	790.946	776.880	764.478	754.000	746.122	740.246	737.282	736.658
<b>55</b>	669.110	655.460	643.214	632.216	623.454	617.188	611.650	608.816	609.258
<b>60</b>	549.666	540.722	530.192	521.144	513.604	508.118	504.270	501.410	501.618
<b>65</b>	433.290	423.878	415.584	408.200	402.948	397.826	395.408	393.094	393.068
<b>70</b>	318.994	312.130	305.760	300.950	296.556	293.592	291.252	289.744	289.484
<b>75</b>	214.292	210.028	205.998	202.800	200.304	198.484	196.690	195.806	195.416
<b>80</b>	124.150	122.122	120.146	118.664	117.520	116.480	115.570	115.102	114.816
<b>85</b>	54.028	53.508	53.066	52.728	52.442	52.208	52.026	51.922	51.948
<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	704.68	N.A.	16.10
0-30	1436.9	N.A.	32.90
0-40	2243.5	N.A.	51.30
0-60	3622.61	N.A.	82.80
0-80	4307.83	N.A.	98.50
0-90	4373.39	N.A.	100.00
10-90	4186.03	N.A.	95.70
20-40	1538.82	N.A.	35.20
20-50	2295.29	N.A.	52.50
40-70	1825.1	N.A.	41.70
60-80	685.22	N.A.	15.70
70-80	239.23	N.A.	5.50
80-90	65.57	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	4373.39	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	187.36
10-20	517.32
20-30	732.22
30-40	806.60
40-50	756.47
50-60	622.64
60-70	445.99
70-80	239.23
80-90	65.57
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

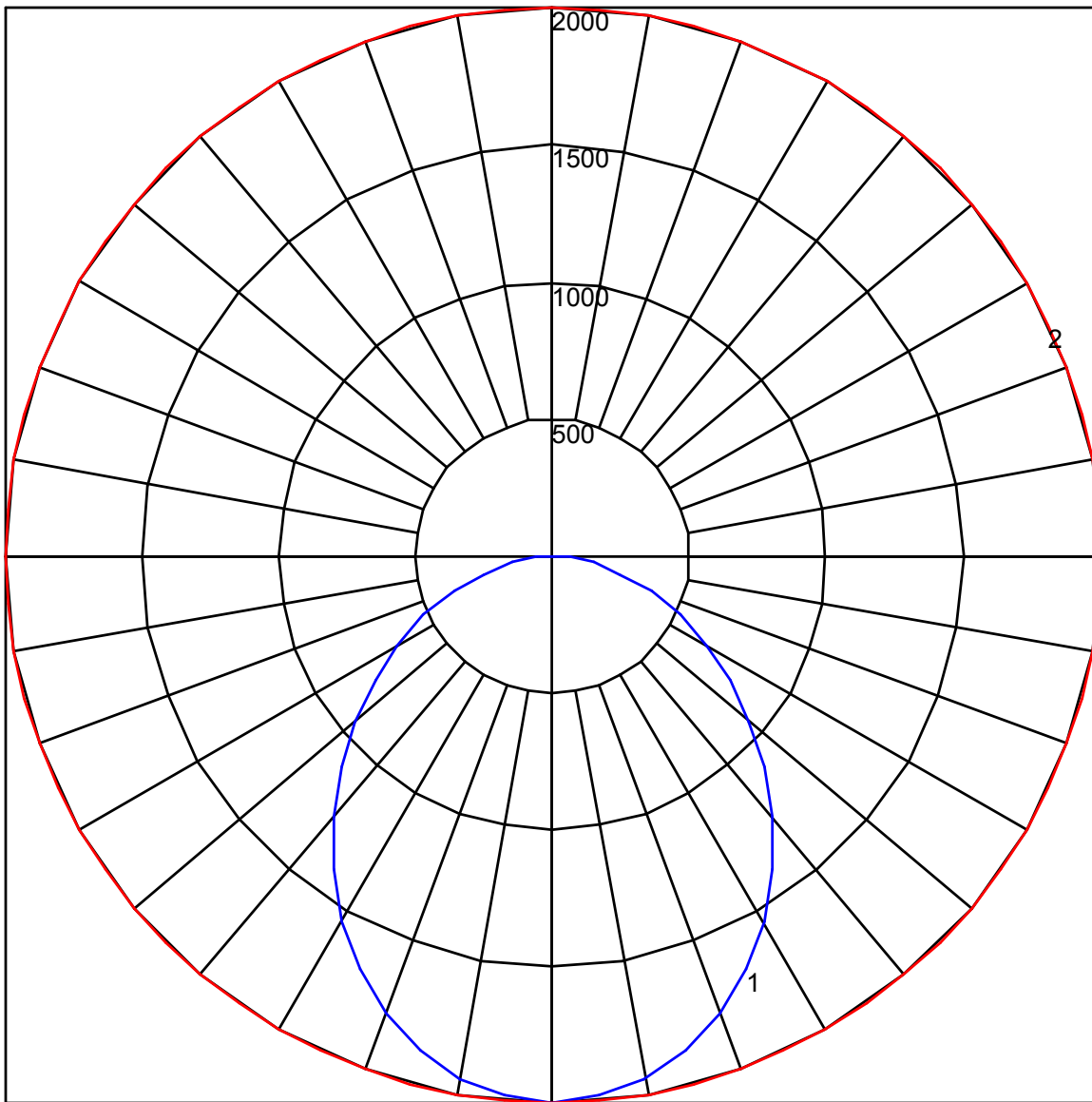
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2000.362 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.)