



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041412304R01  
 [TESTLAB]  
 [ISSUE DATE]  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] BIO-FLSH-LED4HO-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	3701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	40
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	11139	9887	8928
55	9896	8578	7647
65	8834	7556	6696
75	7209	6101	5436
85	5187	4519	4291

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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>	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614
<b>5</b>	1676.554	1677.060	1676.752	1676.466	1676.928	1678.336	1679.524	1679.854	1679.766	1678.864
<b>10</b>	1641.794	1641.288	1641.090	1640.298	1639.792	1640.166	1639.352	1638.032	1635.964	1632.950
<b>15</b>	1584.572	1584.814	1583.450	1581.734	1579.886	1577.774	1574.298	1569.612	1565.014	1559.646
<b>20</b>	1508.254	1507.616	1505.658	1502.380	1498.090	1492.986	1486.892	1479.346	1471.558	1462.780
<b>25</b>	1413.478	1412.642	1409.892	1404.744	1398.188	1390.708	1381.358	1370.886	1359.556	1347.324
<b>30</b>	1303.434	1302.554	1299.298	1292.918	1284.338	1274.108	1262.360	1249.446	1235.212	1220.692
<b>35</b>	1183.688	1182.720	1178.364	1170.598	1160.500	1148.972	1135.200	1120.570	1104.422	1087.636
<b>40</b>	1056.418	1055.296	1050.104	1041.700	1030.744	1018.160	1003.706	987.646	970.640	953.590
<b>45</b>	925.760	924.176	919.116	910.382	899.558	886.600	871.904	855.118	838.618	821.634
<b>50</b>	794.860	793.738	788.414	780.010	769.494	757.020	742.566	727.034	711.084	696.036
<b>55</b>	667.106	665.896	660.814	653.004	643.676	632.192	619.256	605.000	591.536	578.248
<b>60</b>	555.060	554.444	549.956	543.136	534.666	524.590	512.908	500.918	489.434	478.214
<b>65</b>	438.790	438.152	434.302	428.560	421.520	412.962	403.458	393.998	384.582	375.298
<b>70</b>	325.490	324.830	321.552	316.976	311.256	304.722	297.660	290.466	283.360	276.386
<b>75</b>	219.296	218.636	216.238	212.960	209.022	204.556	199.694	194.810	190.146	185.592
<b>80</b>	125.444	124.872	123.442	121.660	119.548	117.172	114.532	112.024	109.538	107.250
<b>85</b>	53.130	52.756	52.184	51.502	50.622	49.676	48.686	47.762	46.794	46.288
<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>	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614	1692.614
<b>5</b>	1677.698	1676.532	1675.564	1673.848	1672.726	1671.274	1671.054	1671.648	1671.934
<b>10</b>	1629.694	1626.614	1623.666	1620.652	1617.990	1615.834	1614.162	1614.338	1614.404
<b>15</b>	1553.376	1547.414	1541.826	1536.678	1532.674	1528.802	1525.986	1525.348	1525.194
<b>20</b>	1453.298	1444.212	1435.852	1428.438	1422.476	1417.020	1412.488	1411.608	1411.080
<b>25</b>	1334.938	1323.894	1312.718	1303.478	1295.470	1288.254	1283.392	1281.126	1281.060
<b>30</b>	1205.798	1192.114	1180.212	1169.432	1160.126	1151.920	1146.486	1144.286	1143.780
<b>35</b>	1071.884	1057.012	1044.120	1032.438	1022.164	1013.518	1008.040	1005.312	1004.784
<b>40</b>	937.024	922.372	909.260	897.248	886.842	878.482	873.290	870.716	869.792
<b>45</b>	806.212	792.242	779.790	768.262	758.582	750.376	745.646	743.050	741.994
<b>50</b>	681.824	669.262	657.360	646.866	638.000	631.334	626.362	623.854	623.326
<b>55</b>	566.170	554.620	544.258	534.952	527.538	522.236	517.550	515.152	515.526
<b>60</b>	465.102	457.534	448.624	440.968	434.588	429.946	426.690	424.270	424.446
<b>65</b>	366.630	358.666	351.648	345.400	340.956	336.622	334.576	332.618	332.596
<b>70</b>	269.918	264.110	258.720	254.650	250.932	248.424	246.444	245.168	244.948
<b>75</b>	181.324	177.716	174.306	171.600	169.488	167.948	166.430	165.682	165.352
<b>80</b>	105.050	103.334	101.662	100.408	99.440	98.560	97.790	97.394	97.152
<b>85</b>	45.716	45.276	44.902	44.616	44.374	44.176	44.022	43.934	43.956
<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	596.27	N.A.	16.10
0-30	1215.84	N.A.	32.90
0-40	1898.35	N.A.	51.30
0-60	3065.28	N.A.	82.80
0-80	3645.08	N.A.	98.50
0-90	3700.56	N.A.	100.00
10-90	3542.03	N.A.	95.70
20-40	1302.08	N.A.	35.20
20-50	1942.17	N.A.	52.50
40-70	1544.32	N.A.	41.70
60-80	579.80	N.A.	15.70
70-80	202.42	N.A.	5.50
80-90	55.48	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	3700.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.54
10-20	437.73
20-30	619.57
30-40	682.51
40-50	640.09
50-60	526.85
60-70	377.38
70-80	202.42
80-90	55.48
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

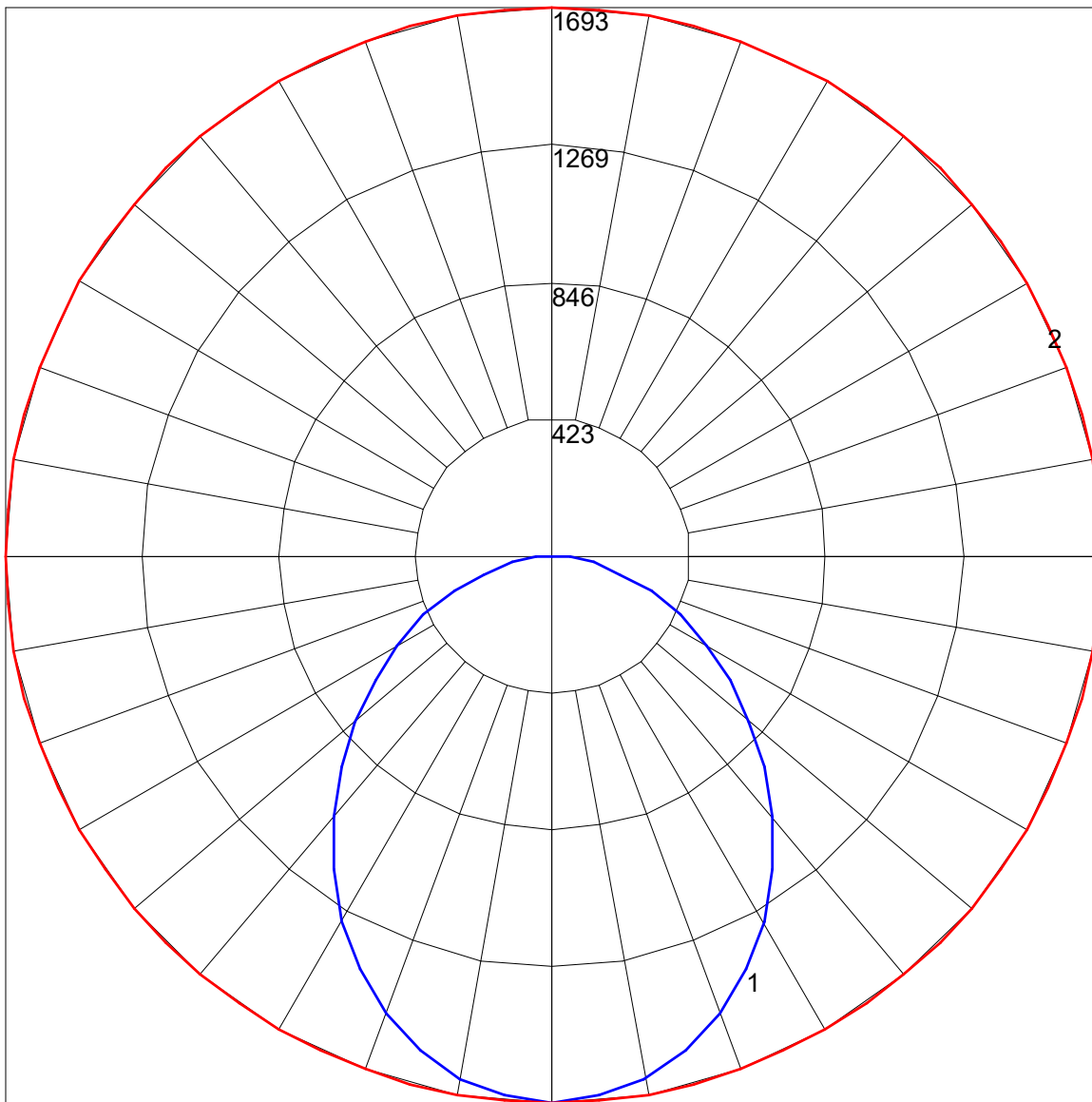
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1692.614 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.)