



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-FLSH-LED4HO-04-ABW-TMW-D1X.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041412303R01  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 5/5/2014  
 [MANUFAC] PRUDENTIAL LIGHTING  
 [LUMCAT] BIO-FLSH-LED4HO-04-ABW-TMW-D1X-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 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	4140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
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	9887	13285	12279
55	8890	11848	9143
65	7876	9965	6972
75	6587	7286	5079
85	5134	4412	3572

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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>	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857
<b>5</b>	1428.099	1428.749	1430.141	1432.507	1435.755	1441.346	1447.193	1452.807	1457.633	1462.644
<b>10</b>	1400.514	1402.092	1406.894	1414.968	1424.944	1438.562	1453.573	1468.630	1482.944	1497.235
<b>15</b>	1356.411	1359.474	1369.566	1384.344	1403.809	1427.705	1452.923	1477.886	1501.620	1523.730
<b>20</b>	1296.114	1301.381	1316.600	1340.078	1369.635	1402.881	1437.565	1469.604	1498.882	1524.634
<b>25</b>	1221.851	1229.090	1249.761	1281.359	1319.384	1360.448	1401.025	1437.194	1467.423	1491.992
<b>30</b>	1134.689	1143.853	1169.721	1208.024	1252.638	1298.713	1342.259	1378.428	1406.732	1428.053
<b>35</b>	1037.342	1047.990	1077.246	1120.490	1169.118	1217.814	1260.804	1295.302	1320.521	1338.988
<b>40</b>	931.457	942.848	974.307	1019.269	1069.195	1117.753	1159.652	1191.552	1214.636	1231.479
<b>45</b>	821.698	833.901	865.917	907.700	956.118	1002.008	1041.262	1070.726	1091.676	1104.042
<b>50</b>	709.410	722.030	755.740	798.150	832.532	874.779	910.646	936.422	951.594	956.861
<b>55</b>	599.326	609.974	634.613	670.457	707.066	739.918	771.725	800.029	801.769	798.683
<b>60</b>	502.605	508.335	528.914	558.401	593.224	621.134	648.718	668.299	665.190	654.866
<b>65</b>	391.198	401.406	411.962	435.162	463.026	487.339	505.342	512.766	510.214	494.949
<b>70</b>	295.081	298.514	306.008	320.415	339.880	353.150	363.985	369.553	364.263	348.974
<b>75</b>	200.378	201.840	205.854	215.783	218.799	229.958	237.730	239.030	233.206	221.630
<b>80</b>	119.271	117.322	119.782	116.626	121.962	126.626	128.992	128.134	123.888	117.415
<b>85</b>	52.594	50.367	47.838	47.978	48.604	49.022	48.906	48.186	46.864	45.194
<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>	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857	1441.857
<b>5</b>	1467.354	1471.762	1476.170	1479.139	1481.482	1483.640	1485.473	1487.190	1489.440
<b>10</b>	1510.343	1522.222	1533.126	1541.918	1549.505	1554.748	1558.669	1563.262	1566.139
<b>15</b>	1543.032	1559.597	1574.306	1585.674	1595.742	1602.215	1606.414	1611.240	1611.959
<b>20</b>	1545.677	1562.288	1575.837	1586.532	1594.397	1598.805	1601.844	1605.301	1604.860
<b>25</b>	1510.482	1523.753	1534.541	1541.988	1546.814	1549.319	1550.572	1552.312	1553.658
<b>30</b>	1442.831	1453.689	1462.389	1468.189	1471.762	1473.502	1473.919	1476.216	1477.121
<b>35</b>	1352.305	1361.817	1369.380	1372.698	1373.208	1372.210	1371.190	1371.654	1371.955
<b>40</b>	1242.174	1247.928	1249.204	1244.471	1237.558	1229.345	1223.382	1219.926	1218.534
<b>45</b>	1108.148	1104.343	1093.880	1077.176	1059.150	1042.817	1030.730	1023.561	1020.452
<b>50</b>	950.318	934.705	910.809	884.430	859.050	836.708	819.563	810.051	807.801
<b>55</b>	781.330	754.928	724.281	693.355	666.095	644.798	627.282	617.422	616.331
<b>60</b>	631.156	603.478	569.583	541.117	516.780	495.436	482.746	475.855	475.113
<b>65</b>	470.519	443.282	416.858	393.542	376.327	361.781	353.104	346.910	346.306
<b>70</b>	328.674	307.702	288.283	272.809	260.281	251.697	245.688	241.837	240.955
<b>75</b>	207.594	194.393	182.561	173.072	166.042	161.078	157.342	155.278	154.489
<b>80</b>	110.246	104.052	98.623	94.331	91.083	88.578	86.838	85.863	85.469
<b>85</b>	43.430	41.830	40.438	39.231	38.257	37.422	36.911	36.610	36.586
<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	564.26	N.A.	13.60
0-30	1227.13	N.A.	29.60
0-40	2023.77	N.A.	48.90
0-60	3441.32	N.A.	83.10
0-80	4085.98	N.A.	98.70
0-90	4139.6	N.A.	100.00
10-90	3999.41	N.A.	96.60
20-40	1459.51	N.A.	35.30
20-50	2242.84	N.A.	54.20
40-70	1847.57	N.A.	44.60
60-80	644.66	N.A.	15.60
70-80	214.64	N.A.	5.20
80-90	53.62	N.A.	1.30
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	4139.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	140.20
10-20	424.07
20-30	662.87
30-40	796.65
40-50	783.33
50-60	634.21
60-70	430.03
70-80	214.64
80-90	53.62
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

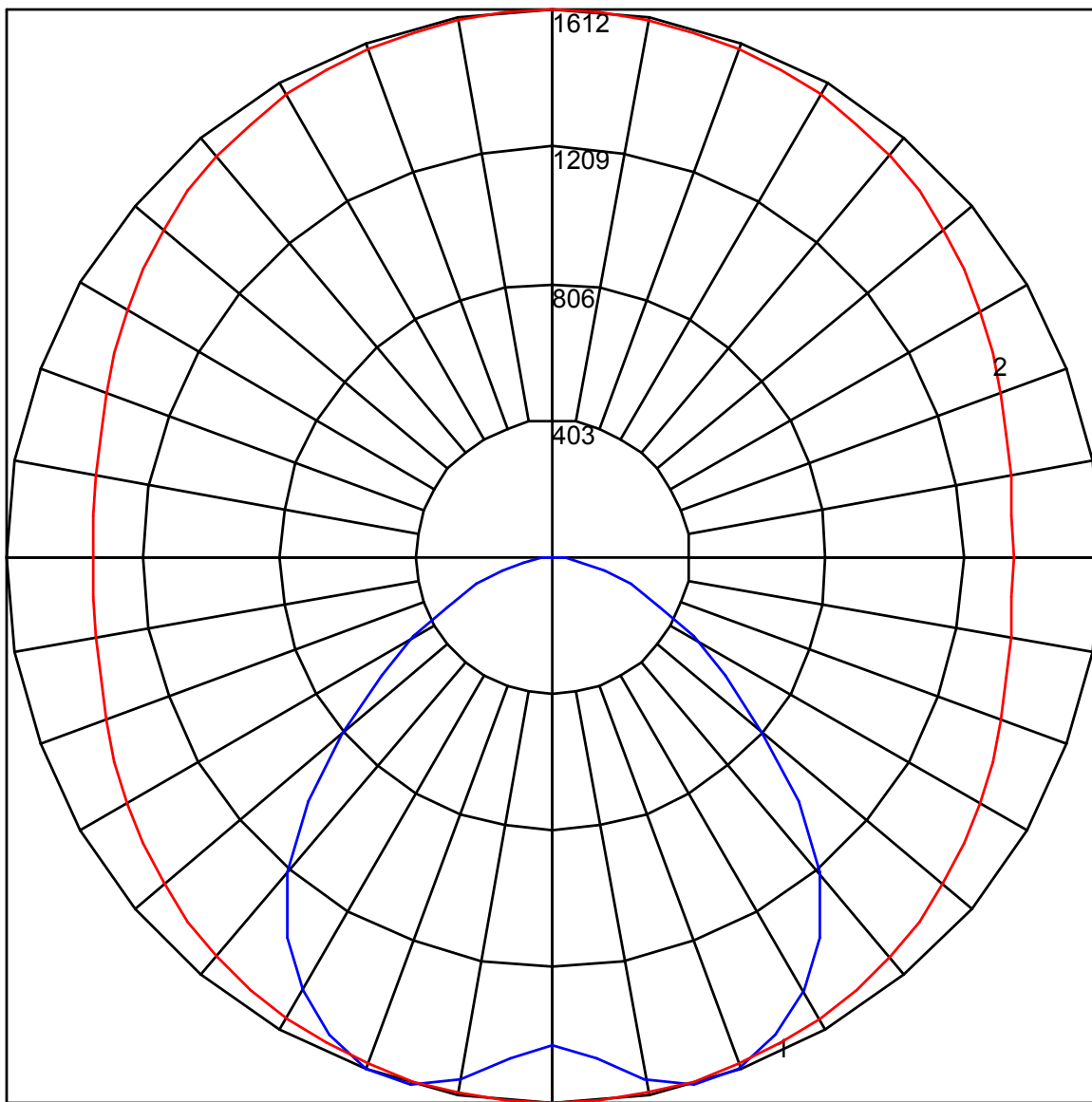
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1611.959 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)