



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PTSD-FLSH-LED4-HO-AWW-D1G.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507502R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-PTSD-FLSH-LED4-MO-AWW-D1G
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] PRISMATIC LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [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
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 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	7664	8181	15480
55	6674	7086	11210
65	6259	6513	8243
75	3490	6065	5816
85	5181	5181	3948

IES INDOOR REPORT
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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	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0
5	2873.0	2873.0	2878.2	2880.8	2891.2	2904.2	2919.8	2935.4	2951.0	2964.0
10	2355.6	2358.2	2368.6	2386.8	2412.8	2449.2	2490.8	2540.2	2592.2	2649.4
15	1840.8	1843.4	1853.8	1874.6	1905.8	1947.4	1999.4	2061.8	2134.6	2217.8
20	1448.2	1453.4	1461.2	1479.4	1505.4	1539.2	1586.0	1643.2	1713.4	1796.6
25	1177.8	1177.8	1183.0	1196.0	1214.2	1240.2	1274.0	1315.6	1372.8	1443.0
30	998.4	998.4	1001.0	1008.8	1019.2	1032.2	1053.0	1081.6	1118.0	1170.0
35	873.6	873.6	873.6	876.2	881.4	889.2	899.6	915.2	936.0	969.8
40	764.4	764.4	764.4	767.0	769.6	777.4	782.6	790.4	800.8	821.6
45	655.2	655.2	657.8	660.4	665.6	670.8	676.0	681.2	689.0	699.4
50	548.6	548.6	551.2	553.8	559.0	564.2	572.0	579.8	585.0	592.8
55	462.8	462.8	465.4	465.4	468.0	470.6	475.8	481.0	486.2	491.4
60	390.0	390.0	392.6	392.6	395.2	397.8	400.4	403.0	405.6	405.6
65	319.8	319.8	319.8	322.4	325.0	327.6	330.2	332.8	332.8	332.8
70	236.6	236.6	239.2	241.8	247.0	252.2	257.4	260.0	262.6	260.0
75	109.2	169.0	169.0	171.6	171.6	174.2	179.4	182.0	187.2	189.8
80	54.6	111.8	111.8	111.8	111.8	111.8	111.8	114.4	117.0	117.0
85	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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>	<u>95</u>
0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0
5	2977.0	2990.0	3000.4	3000.4	2997.8	2995.2	2984.8	2971.8	2953.6	2930.2
10	2706.6	2766.4	2823.6	2870.4	2904.2	2927.6	2932.8	2925.0	2893.8	2844.4
15	2314.0	2415.4	2519.4	2620.8	2709.2	2779.4	2821.0	2828.8	2795.0	2717.0
20	1900.6	2020.2	2155.4	2301.0	2441.4	2563.6	2646.8	2680.6	2649.4	2553.2
25	1534.0	1648.4	1786.2	1947.4	2121.6	2285.4	2412.8	2477.8	2462.2	2355.6
30	1240.2	1333.8	1456.0	1609.4	1786.2	1970.8	2126.8	2220.4	2225.6	2129.4
35	1016.6	1084.2	1180.4	1310.4	1474.2	1651.0	1812.2	1918.8	1944.8	1872.0
40	850.2	894.4	964.6	1066.0	1201.2	1352.0	1495.0	1593.8	1635.4	1596.4
45	717.6	746.2	795.6	868.4	972.4	1092.0	1201.2	1279.2	1323.4	1307.8
50	603.2	621.4	655.2	707.2	782.6	868.4	943.8	995.8	1029.6	1032.2
55	501.8	509.6	535.6	572.0	624.0	681.2	725.4	754.0	777.4	782.6
60	410.8	421.2	436.8	460.2	496.6	533.0	556.4	569.4	579.8	585.0
65	330.2	332.8	343.2	361.4	384.8	405.6	416.0	418.6	421.2	423.8
70	257.4	254.8	257.4	265.2	280.8	291.2	293.8	291.2	288.6	288.6
75	189.8	184.6	182.0	182.0	187.2	195.0	192.4	187.2	182.0	179.4
80	119.6	117.0	114.4	114.4	111.8	111.8	109.2	104.0	101.4	96.2
85	54.6	54.6	54.6	52.0	49.4	49.4	46.8	44.2	41.6	39.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0
5	2899.0	2862.6	2826.2	2787.2	2743.0	2698.8	2654.6	2610.4	2568.8	2527.2
10	2771.6	2685.8	2589.6	2485.6	2379.0	2275.0	2176.2	2082.6	1999.4	1926.6
15	2600.0	2457.0	2301.0	2139.8	1983.8	1843.4	1721.2	1609.4	1515.8	1437.8
20	2397.2	2207.4	2004.6	1807.0	1630.2	1482.0	1357.2	1255.8	1175.2	1115.4
25	2176.2	1952.6	1726.4	1515.8	1341.6	1203.8	1094.6	1011.4	949.0	904.8
30	1942.2	1708.2	1476.8	1274.0	1110.2	990.6	904.8	842.4	800.8	769.6
35	1705.6	1479.4	1258.4	1068.6	930.8	832.0	764.4	720.2	686.4	660.4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BIO-PSTD-FLSH-LED4-HO-AWW-D1G.IES

CANDELA TABULATION - (Cont.)

40	1461.2	1263.6	1066.0	899.6	782.6	704.6	650.0	613.6	582.4	553.8
45	1216.8	1060.8	891.8	754.0	657.8	592.8	548.6	512.2	473.2	452.4
50	977.6	865.8	735.8	624.0	546.0	481.0	452.4	416.0	387.4	364.0
55	754.0	683.8	590.2	507.0	431.6	397.8	361.4	330.2	306.8	283.4
60	569.4	527.8	465.4	405.6	353.6	314.6	286.0	260.0	236.6	218.4
65	413.4	390.0	351.0	306.8	270.4	241.8	215.8	195.0	182.0	169.0
70	280.8	267.8	244.4	215.8	192.4	171.6	156.0	145.6	135.2	127.4
75	176.8	169.0	156.0	140.4	127.4	117.0	109.2	101.4	96.2	91.0
80	93.6	91.0	85.8	83.2	78.0	72.8	70.2	67.6	65.0	62.4
85	39.0	39.0	39.0	39.0	39.0	36.4	36.4	36.4	33.8	33.8
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0	2977.0
5	2493.4	2462.2	2438.8	2418.0	2402.4	2394.6	2392.0
10	1864.2	1812.2	1770.6	1736.8	1710.8	1700.4	1695.2
15	1375.4	1326.0	1287.0	1255.8	1235.0	1224.6	1222.0
20	1063.4	1024.4	995.8	975.0	962.0	956.8	954.2
25	873.6	847.6	832.0	819.0	808.6	806.0	806.0
30	746.2	728.0	715.0	702.0	694.2	691.6	691.6
35	639.6	618.8	603.2	590.2	582.4	577.2	577.2
40	530.4	512.2	491.4	481.0	473.2	468.0	468.0
45	431.6	410.8	395.2	384.8	377.0	371.8	371.8
50	343.2	325.0	312.0	301.6	293.8	288.6	288.6
55	265.2	249.6	239.2	231.4	226.2	223.6	223.6
60	205.4	195.0	189.8	184.6	182.0	179.4	179.4
65	161.2	153.4	148.2	145.6	143.0	140.4	140.4
70	122.2	117.0	114.4	111.8	109.2	109.2	109.2
75	88.4	85.8	83.2	80.6	80.6	80.6	80.6
80	59.8	57.2	57.2	57.2	54.6	54.6	54.6
85	33.8	33.8	33.8	33.8	33.8	33.8	33.8
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	827.54	N.A.	22.60
0-30	1500.05	N.A.	41.00
0-40	2159.71	N.A.	59.00
0-60	3159.42	N.A.	86.30
0-80	3613.07	N.A.	98.70
0-90	3662.05	N.A.	100.00
10-90	3407.04	N.A.	93.00
20-40	1332.17	N.A.	36.40
20-50	1900.48	N.A.	51.90
40-70	1293.81	N.A.	35.30
60-80	453.66	N.A.	12.40
70-80	159.55	N.A.	4.40
80-90	48.98	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	3662.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.01
10-20	572.54
20-30	672.51
30-40	659.66
40-50	568.31
50-60	431.39
60-70	294.10
70-80	159.55
80-90	48.98
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

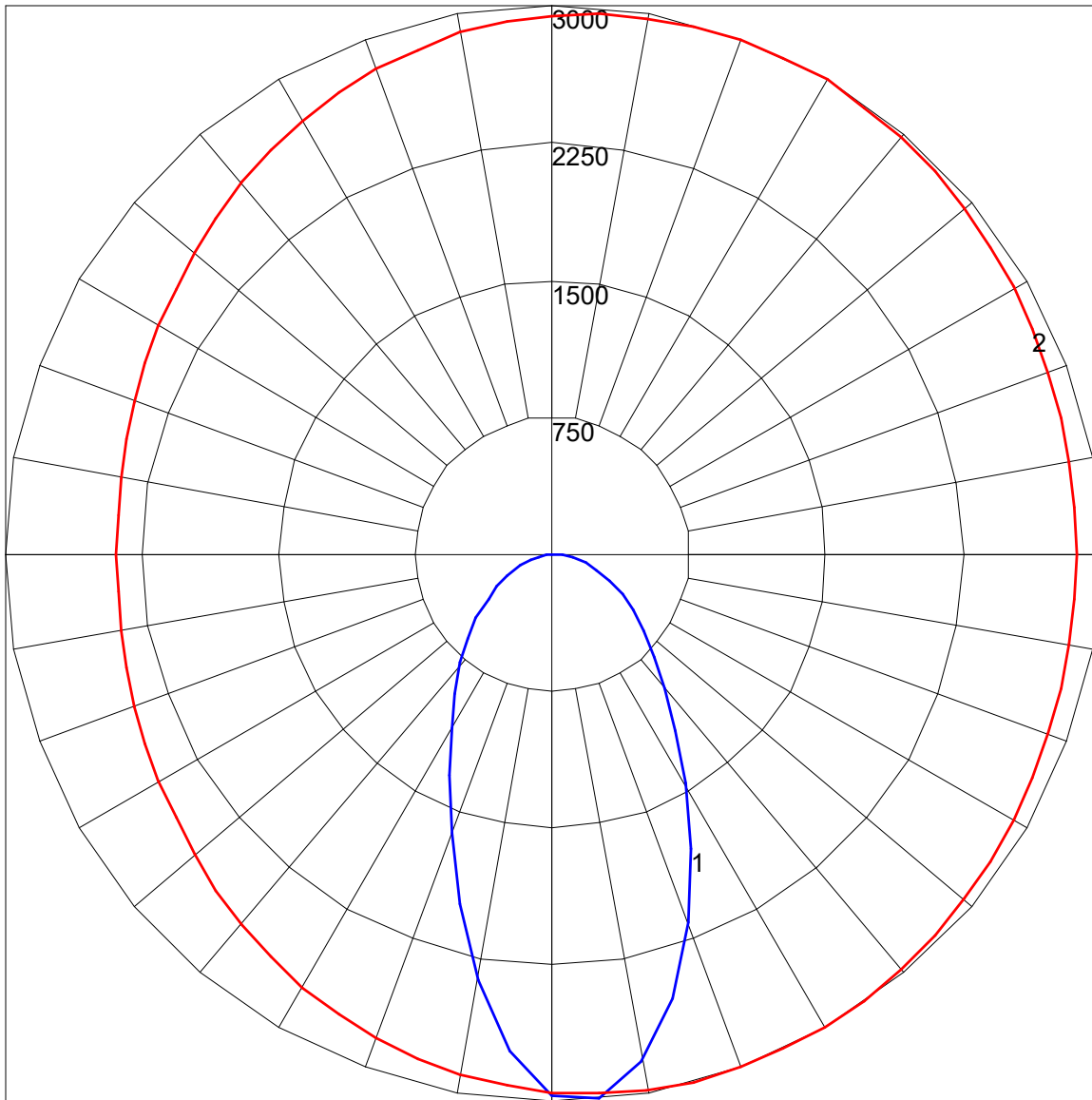
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	88	83	89	85	81	86	83	79	83	80	77	75
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	51	45	41	50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

POLAR GRAPH



Maximum Candela = 3000.4 Located At Horizontal Angle = 60, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)