



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507502R02
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-PTSD-FLSH-LED4-LO-AWW-D1G
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"H. LED LUMINAIRE
 [MORE] PRISMATIC LENS
 [BALLASTCAT]
 [BALLAST] I
 [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	1620
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	16
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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3390	3618	6847
55	2952	3134	4958
65	2768	2881	3646
75	1543	2683	2572
85	2292	2292	1746

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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	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75
5	1270.75	1270.75	1273.05	1274.20	1278.80	1284.55	1291.45	1298.35	1305.25	1311.00
10	1041.90	1043.05	1047.65	1055.70	1067.20	1083.30	1101.70	1123.55	1146.55	1171.85
15	814.20	815.35	819.95	829.15	842.95	861.35	884.35	911.95	944.15	980.95
20	640.55	642.85	646.30	654.35	665.85	680.80	701.50	726.80	757.85	794.65
25	520.95	520.95	523.25	529.00	537.05	548.55	563.50	581.90	607.20	638.25
30	441.60	441.60	442.75	446.20	450.80	456.55	465.75	478.40	494.50	517.50
35	386.40	386.40	386.40	387.55	389.85	393.30	397.90	404.80	414.00	428.95
40	338.10	338.10	338.10	339.25	340.40	343.85	346.15	349.60	354.20	363.40
45	289.80	289.80	290.95	292.10	294.40	296.70	299.00	301.30	304.75	309.35
50	242.65	242.65	243.80	244.95	247.25	249.55	253.00	256.45	258.75	262.20
55	204.70	204.70	205.85	205.85	207.00	208.15	210.45	212.75	215.05	217.35
60	172.50	172.50	173.65	173.65	174.80	175.95	177.10	178.25	179.40	179.40
65	141.45	141.45	141.45	142.60	143.75	144.90	146.05	147.20	147.20	147.20
70	104.65	104.65	105.80	106.95	109.25	111.55	113.85	115.00	116.15	115.00
75	48.30	74.75	74.75	75.90	75.90	77.05	79.35	80.50	82.80	83.95
80	24.15	49.45	49.45	49.45	49.45	49.45	49.45	50.60	51.75	51.75
85	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15	24.15
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75
5	1316.75	1322.50	1327.10	1327.10	1325.95	1324.80	1320.20	1314.45	1306.40	1296.05
10	1197.15	1223.60	1248.90	1269.60	1284.55	1294.90	1297.20	1293.75	1279.95	1258.10
15	1023.50	1068.35	1114.35	1159.20	1198.30	1229.35	1247.75	1251.20	1236.25	1201.75
20	840.65	893.55	953.35	1017.75	1079.85	1133.90	1170.70	1185.65	1171.85	1129.30
25	678.50	729.10	790.05	861.35	938.40	1010.85	1067.20	1095.95	1089.05	1041.90
30	548.55	589.95	644.00	711.85	790.05	871.70	940.70	982.10	984.40	941.85
35	449.65	479.55	522.10	579.60	652.05	730.25	801.55	848.70	860.20	828.00
40	376.05	395.60	426.65	471.50	531.30	598.00	661.25	704.95	723.35	706.10
45	317.40	330.05	351.90	384.10	430.10	483.00	531.30	565.80	585.35	578.45
50	266.80	274.85	289.80	312.80	346.15	384.10	417.45	440.45	455.40	456.55
55	221.95	225.40	236.90	253.00	276.00	301.30	320.85	333.50	343.85	346.15
60	181.70	186.30	193.20	203.55	219.65	235.75	246.10	251.85	256.45	258.75
65	146.05	147.20	151.80	159.85	170.20	179.40	184.00	185.15	186.30	187.45
70	113.85	112.70	113.85	117.30	124.20	128.80	129.95	128.80	127.65	127.65
75	83.95	81.65	80.50	80.50	82.80	86.25	85.10	82.80	80.50	79.35
80	52.90	51.75	50.60	50.60	49.45	49.45	48.30	46.00	44.85	42.55
85	24.15	24.15	24.15	23.00	21.85	21.85	20.70	19.55	18.40	17.25
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75
5	1282.25	1266.15	1250.05	1232.80	1213.25	1193.70	1174.15	1154.60	1136.20	1117.80
10	1225.90	1187.95	1145.40	1099.40	1052.25	1006.25	962.55	921.15	884.35	852.15
15	1150.00	1086.75	1017.75	946.45	877.45	815.35	761.30	711.85	670.45	635.95
20	1060.30	976.35	886.65	799.25	721.05	655.50	600.30	555.45	519.80	493.35
25	962.55	863.65	763.60	670.45	593.40	532.45	484.15	447.35	419.75	400.20
30	859.05	755.55	653.20	563.50	491.05	438.15	400.20	372.60	354.20	340.40
35	754.40	654.35	556.60	472.65	411.70	368.00	338.10	318.55	303.60	292.10

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CANDELA TABULATION - (Cont.)

40	646.30	558.90	471.50	397.90	346.15	311.65	287.50	271.40	257.60	244.95
45	538.20	469.20	394.45	333.50	290.95	262.20	242.65	226.55	209.30	200.10
50	432.40	382.95	325.45	276.00	241.50	212.75	200.10	184.00	171.35	161.00
55	333.50	302.45	261.05	224.25	190.90	175.95	159.85	146.05	135.70	125.35
60	251.85	233.45	205.85	179.40	156.40	139.15	126.50	115.00	104.65	96.60
65	182.85	172.50	155.25	135.70	119.60	106.95	95.45	86.25	80.50	74.75
70	124.20	118.45	108.10	95.45	85.10	75.90	69.00	64.40	59.80	56.35
75	78.20	74.75	69.00	62.10	56.35	51.75	48.30	44.85	42.55	40.25
80	41.40	40.25	37.95	36.80	34.50	32.20	31.05	29.90	28.75	27.60
85	17.25	17.25	17.25	17.25	17.25	16.10	16.10	16.10	14.95	14.95
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75	1316.75
5	1102.85	1089.05	1078.70	1069.50	1062.60	1059.15	1058.00
10	824.55	801.55	783.15	768.20	756.70	752.10	749.80
15	608.35	586.50	569.25	555.45	546.25	541.65	540.50
20	470.35	453.10	440.45	431.25	425.50	423.20	422.05
25	386.40	374.90	368.00	362.25	357.65	356.50	356.50
30	330.05	322.00	316.25	310.50	307.05	305.90	305.90
35	282.90	273.70	266.80	261.05	257.60	255.30	255.30
40	234.60	226.55	217.35	212.75	209.30	207.00	207.00
45	190.90	181.70	174.80	170.20	166.75	164.45	164.45
50	151.80	143.75	138.00	133.40	129.95	127.65	127.65
55	117.30	110.40	105.80	102.35	100.05	98.90	98.90
60	90.85	86.25	83.95	81.65	80.50	79.35	79.35
65	71.30	67.85	65.55	64.40	63.25	62.10	62.10
70	54.05	51.75	50.60	49.45	48.30	48.30	48.30
75	39.10	37.95	36.80	35.65	35.65	35.65	35.65
80	26.45	25.30	25.30	25.30	24.15	24.15	24.15
85	14.95	14.95	14.95	14.95	14.95	14.95	14.95
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	366.03	N.A.	22.60
0-30	663.48	N.A.	41.00
0-40	955.26	N.A.	59.00
0-60	1397.43	N.A.	86.30
0-80	1598.09	N.A.	98.70
0-90	1619.75	N.A.	100.00
10-90	1506.96	N.A.	93.00
20-40	589.23	N.A.	36.40
20-50	840.60	N.A.	51.90
40-70	572.26	N.A.	35.30
60-80	200.66	N.A.	12.40
70-80	70.57	N.A.	4.40
80-90	21.66	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	1619.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.79
10-20	253.24
20-30	297.45
30-40	291.77
40-50	251.37
50-60	190.81
60-70	130.08
70-80	70.57
80-90	21.66
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

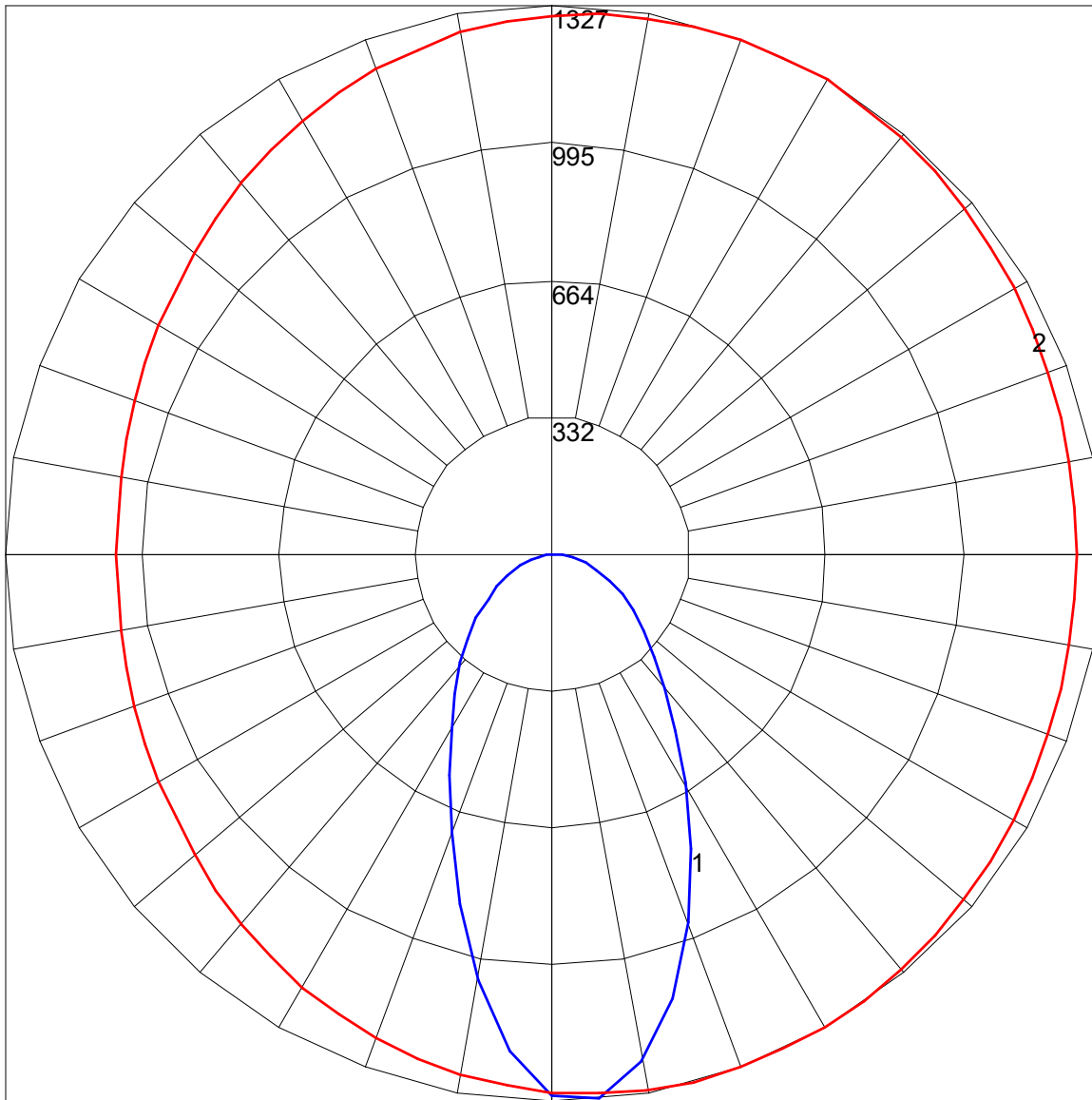
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1327.1 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.)