



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PTSD-FLSH-LED4-MO-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.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	24
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	5011	5349	10121
55	4363	4633	7330
65	4092	4259	5390
75	2282	3966	3803
85	3388	3388	2581

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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	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5
5	1878.5	1878.5	1881.9	1883.6	1890.4	1898.9	1909.1	1919.3	1929.5	1938.0
10	1540.2	1541.9	1548.7	1560.6	1577.6	1601.4	1628.6	1660.9	1694.9	1732.3
15	1203.6	1205.3	1212.1	1225.7	1246.1	1273.3	1307.3	1348.1	1395.7	1450.1
20	946.9	950.3	955.4	967.3	984.3	1006.4	1037.0	1074.4	1120.3	1174.7
25	770.1	770.1	773.5	782.0	793.9	810.9	833.0	860.2	897.6	943.5
30	652.8	652.8	654.5	659.6	666.4	674.9	688.5	707.2	731.0	765.0
35	571.2	571.2	571.2	572.9	576.3	581.4	588.2	598.4	612.0	634.1
40	499.8	499.8	499.8	501.5	503.2	508.3	511.7	516.8	523.6	537.2
45	428.4	428.4	430.1	431.8	435.2	438.6	442.0	445.4	450.5	457.3
50	358.7	358.7	360.4	362.1	365.5	368.9	374.0	379.1	382.5	387.6
55	302.6	302.6	304.3	304.3	306.0	307.7	311.1	314.5	317.9	321.3
60	255.0	255.0	256.7	256.7	258.4	260.1	261.8	263.5	265.2	265.2
65	209.1	209.1	209.1	210.8	212.5	214.2	215.9	217.6	217.6	217.6
70	154.7	154.7	156.4	158.1	161.5	164.9	168.3	170.0	171.7	170.0
75	71.4	110.5	110.5	112.2	112.2	113.9	117.3	119.0	122.4	124.1
80	35.7	73.1	73.1	73.1	73.1	73.1	73.1	74.8	76.5	76.5
85	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
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	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5
5	1946.5	1955.0	1961.8	1961.8	1960.1	1958.4	1951.6	1943.1	1931.2	1915.9
10	1769.7	1808.8	1846.2	1876.8	1898.9	1914.2	1917.6	1912.5	1892.1	1859.8
15	1513.0	1579.3	1647.3	1713.6	1771.4	1817.3	1844.5	1849.6	1827.5	1776.5
20	1242.7	1320.9	1409.3	1504.5	1596.3	1676.2	1730.6	1752.7	1732.3	1669.4
25	1003.0	1077.8	1167.9	1273.3	1387.2	1494.3	1577.6	1620.1	1609.9	1540.2
30	810.9	872.1	952.0	1052.3	1167.9	1288.6	1390.6	1451.8	1455.2	1392.3
35	664.7	708.9	771.8	856.8	963.9	1079.5	1184.9	1254.6	1271.6	1224.0
40	555.9	584.8	630.7	697.0	785.4	884.0	977.5	1042.1	1069.3	1043.8
45	469.2	487.9	520.2	567.8	635.8	714.0	785.4	836.4	865.3	855.1
50	394.4	406.3	428.4	462.4	511.7	567.8	617.1	651.1	673.2	674.9
55	328.1	333.2	350.2	374.0	408.0	445.4	474.3	493.0	508.3	511.7
60	268.6	275.4	285.6	300.9	324.7	348.5	363.8	372.3	379.1	382.5
65	215.9	217.6	224.4	236.3	251.6	265.2	272.0	273.7	275.4	277.1
70	168.3	166.6	168.3	173.4	183.6	190.4	192.1	190.4	188.7	188.7
75	124.1	120.7	119.0	119.0	122.4	127.5	125.8	122.4	119.0	117.3
80	78.2	76.5	74.8	74.8	73.1	73.1	71.4	68.0	66.3	62.9
85	35.7	35.7	35.7	34.0	32.3	32.3	30.6	28.9	27.2	25.5
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	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5
5	1895.5	1871.7	1847.9	1822.4	1793.5	1764.6	1735.7	1706.8	1679.6	1652.4
10	1812.2	1756.1	1693.2	1625.2	1555.5	1487.5	1422.9	1361.7	1307.3	1259.7
15	1700.0	1606.5	1504.5	1399.1	1297.1	1205.3	1125.4	1052.3	991.1	940.1
20	1567.4	1443.3	1310.7	1181.5	1065.9	969.0	887.4	821.1	768.4	729.3
25	1422.9	1276.7	1128.8	991.1	877.2	787.1	715.7	661.3	620.5	591.6
30	1269.9	1116.9	965.6	833.0	725.9	647.7	591.6	550.8	523.6	503.2
35	1115.2	967.3	822.8	698.7	608.6	544.0	499.8	470.9	448.8	431.8

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CANDELA TABULATION - (Cont.)

40	955.4	826.2	697.0	588.2	511.7	460.7	425.0	401.2	380.8	362.1
45	795.6	693.6	583.1	493.0	430.1	387.6	358.7	334.9	309.4	295.8
50	639.2	566.1	481.1	408.0	357.0	314.5	295.8	272.0	253.3	238.0
55	493.0	447.1	385.9	331.5	282.2	260.1	236.3	215.9	200.6	185.3
60	372.3	345.1	304.3	265.2	231.2	205.7	187.0	170.0	154.7	142.8
65	270.3	255.0	229.5	200.6	176.8	158.1	141.1	127.5	119.0	110.5
70	183.6	175.1	159.8	141.1	125.8	112.2	102.0	95.2	88.4	83.3
75	115.6	110.5	102.0	91.8	83.3	76.5	71.4	66.3	62.9	59.5
80	61.2	59.5	56.1	54.4	51.0	47.6	45.9	44.2	42.5	40.8
85	25.5	25.5	25.5	25.5	25.5	23.8	23.8	23.8	22.1	22.1
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	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5	1946.5
5	1630.3	1609.9	1594.6	1581.0	1570.8	1565.7	1564.0
10	1218.9	1184.9	1157.7	1135.6	1118.6	1111.8	1108.4
15	899.3	867.0	841.5	821.1	807.5	800.7	799.0
20	695.3	669.8	651.1	637.5	629.0	625.6	623.9
25	571.2	554.2	544.0	535.5	528.7	527.0	527.0
30	487.9	476.0	467.5	459.0	453.9	452.2	452.2
35	418.2	404.6	394.4	385.9	380.8	377.4	377.4
40	346.8	334.9	321.3	314.5	309.4	306.0	306.0
45	282.2	268.6	258.4	251.6	246.5	243.1	243.1
50	224.4	212.5	204.0	197.2	192.1	188.7	188.7
55	173.4	163.2	156.4	151.3	147.9	146.2	146.2
60	134.3	127.5	124.1	120.7	119.0	117.3	117.3
65	105.4	100.3	96.9	95.2	93.5	91.8	91.8
70	79.9	76.5	74.8	73.1	71.4	71.4	71.4
75	57.8	56.1	54.4	52.7	52.7	52.7	52.7
80	39.1	37.4	37.4	37.4	35.7	35.7	35.7
85	22.1	22.1	22.1	22.1	22.1	22.1	22.1
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	541.09	N.A.	22.60
0-30	980.80	N.A.	41.00
0-40	1412.12	N.A.	59.00
0-60	2065.77	N.A.	86.30
0-80	2362.39	N.A.	98.70
0-90	2394.42	N.A.	100.00
10-90	2227.68	N.A.	93.00
20-40	871.03	N.A.	36.40
20-50	1242.62	N.A.	51.90
40-70	845.95	N.A.	35.30
60-80	296.62	N.A.	12.40
70-80	104.32	N.A.	4.40
80-90	32.02	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	2394.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.74
10-20	374.35
20-30	439.71
30-40	431.32
40-50	371.59
50-60	282.06
60-70	192.30
70-80	104.32
80-90	32.02
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

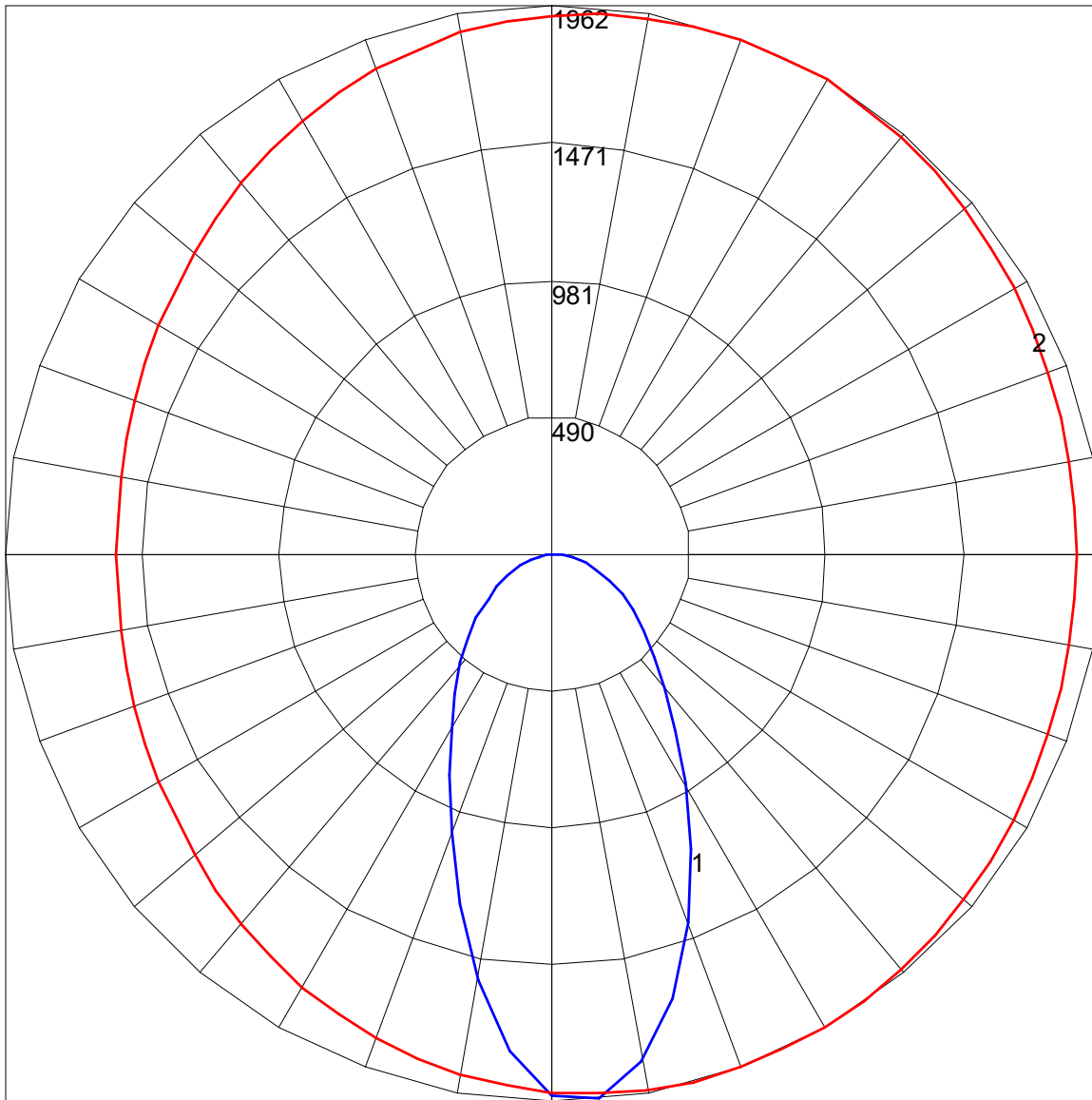
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	76
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	70	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	52	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 = 1961.8 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.)