



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412304R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-FLSH-LED4-MO-04-SAL-D1
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.
 [MORE] DIFFUSED 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	2355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	24
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	7089	6291	5682
55	6297	5459	4866
65	5622	4808	4261
75	4588	3883	3459
85	3301	2876	2731

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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	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118
5	1066.898	1067.220	1067.024	1066.842	1067.136	1068.032	1068.788	1068.998	1068.942	1068.368
10	1044.778	1044.456	1044.330	1043.826	1043.504	1043.742	1043.224	1042.384	1041.068	1039.150
15	1008.364	1008.518	1007.650	1006.558	1005.382	1004.038	1001.826	998.844	995.918	992.502
20	959.798	959.392	958.146	956.060	953.330	950.082	946.204	941.402	936.446	930.860
25	899.486	898.954	897.204	893.928	889.756	884.996	879.046	872.382	865.172	857.388
30	829.458	828.898	826.826	822.766	817.306	810.796	803.320	795.102	786.044	776.804
35	753.256	752.640	749.868	744.926	738.500	731.164	722.400	713.090	702.814	692.132
40	672.266	671.552	668.248	662.900	655.928	647.920	638.722	628.502	617.680	606.830
45	589.120	588.112	584.892	579.334	572.446	564.200	554.848	544.166	533.666	522.858
50	505.820	505.106	501.718	496.370	489.678	481.740	472.542	462.658	452.508	442.932
55	424.522	423.752	420.518	415.548	409.612	402.304	394.072	385.000	376.432	367.976
60	353.220	352.828	349.972	345.632	340.242	333.830	326.396	318.766	311.458	304.318
65	279.230	278.824	276.374	272.720	268.240	262.794	256.746	250.726	244.734	238.826
70	207.130	206.710	204.624	201.712	198.072	193.914	189.420	184.842	180.320	175.882
75	139.552	139.132	137.606	135.520	133.014	130.172	127.078	123.970	121.002	118.104
80	79.828	79.464	78.554	77.420	76.076	74.564	72.884	71.288	69.706	68.250
85	33.810	33.572	33.208	32.774	32.214	31.612	30.982	30.394	29.778	29.456
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles								
	50	55	60	65	70	75	80	85	90
0	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118	1077.118
5	1067.626	1066.884	1066.268	1065.176	1064.462	1063.538	1063.398	1063.776	1063.958
10	1037.078	1035.118	1033.242	1031.324	1029.630	1028.258	1027.194	1027.306	1027.348
15	988.512	984.718	981.162	977.886	975.338	972.874	971.082	970.676	970.578
20	924.826	919.044	913.724	909.006	905.212	901.740	898.856	898.296	897.960
25	849.506	842.478	835.366	829.486	824.390	819.798	816.704	815.262	815.220
30	767.326	758.618	751.044	744.184	738.262	733.040	729.582	728.182	727.860
35	682.108	672.644	664.440	657.006	650.468	644.966	641.480	639.744	639.408
40	596.288	586.964	578.620	570.976	564.354	559.034	555.730	554.092	553.504
45	513.044	504.154	496.230	488.894	482.734	477.512	474.502	472.850	472.178
50	433.888	425.894	418.320	411.642	406.000	401.758	398.594	396.998	396.662
55	360.290	352.940	346.346	340.424	335.706	332.332	329.350	327.824	328.062
60	295.974	291.158	285.488	280.616	276.556	273.602	271.530	269.990	270.102
65	233.310	228.242	223.776	219.800	216.972	214.214	212.912	211.666	211.652
70	171.766	168.070	164.640	162.050	159.684	158.088	156.828	156.016	155.876
75	115.388	113.092	110.922	109.200	107.856	106.876	105.910	105.434	105.224
80	66.850	65.758	64.694	63.896	63.280	62.720	62.230	61.978	61.824
85	29.092	28.812	28.574	28.392	28.238	28.112	28.014	27.958	27.972
90	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	379.44	N.A.	16.10
0-30	773.72	N.A.	32.90
0-40	1208.04	N.A.	51.30
0-60	1950.63	N.A.	82.80
0-80	2319.6	N.A.	98.50
0-90	2354.9	N.A.	100.00
10-90	2254.02	N.A.	95.70
20-40	828.60	N.A.	35.20
20-50	1235.92	N.A.	52.50
40-70	982.75	N.A.	41.70
60-80	368.96	N.A.	15.70
70-80	128.81	N.A.	5.50
80-90	35.31	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	2354.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.89
10-20	278.55
20-30	394.27
30-40	434.32
40-50	407.33
50-60	335.27
60-70	240.15
70-80	128.81
80-90	35.31
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

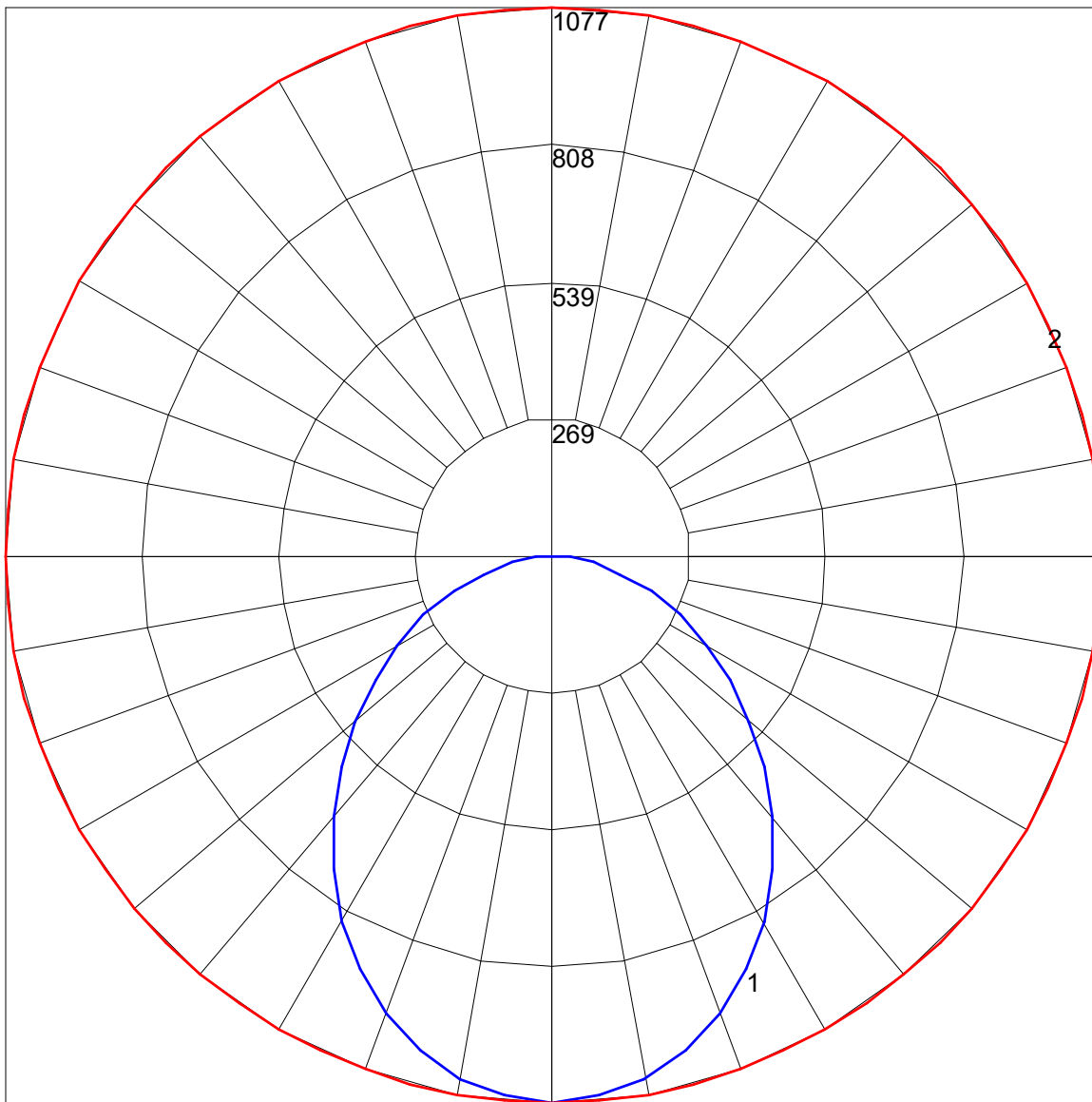
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1077.118 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.)