



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412304R01
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-FLSH-LED4LO-04-SAL-TMW-D1-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 OT30W/PRG1050C/UNV/DIM/L
 [BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60HZ. OUTPUT: 10-55VDC, 0.35-1.05A.
 [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	1934
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	19.07
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	5823	5168	4667
55	5173	4484	3997
65	4618	3950	3500
75	3768	3189	2841
85	2711	2362	2243

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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	884.775	884.775	884.775	884.775	884.775	884.775	884.775	884.775	884.775	884.775
5	876.380	876.645	876.484	876.334	876.576	877.312	877.933	878.105	878.059	877.588
10	858.210	857.946	857.842	857.428	857.164	857.359	856.934	856.244	855.163	853.587
15	828.299	828.425	827.712	826.815	825.849	824.745	822.928	820.479	818.075	815.269
20	788.405	788.072	787.048	785.335	783.092	780.424	777.239	773.294	769.223	764.635
25	738.863	738.426	736.989	734.298	730.871	726.961	722.073	716.599	710.677	704.283
30	681.340	680.880	679.178	675.843	671.358	666.011	659.870	653.119	645.679	638.089
35	618.746	618.240	615.963	611.903	606.625	600.599	593.400	585.752	577.311	568.537
40	552.218	551.632	548.918	544.525	538.798	532.220	524.664	516.269	507.380	498.467
45	483.920	483.092	480.447	475.881	470.223	463.450	455.768	446.993	438.368	429.490
50	415.495	414.908	412.125	407.732	402.235	395.715	388.159	380.040	371.703	363.837
55	348.714	348.082	345.425	341.343	336.467	330.464	323.702	316.250	309.212	302.266
60	290.145	289.823	287.477	283.912	279.484	274.217	268.111	261.843	255.840	249.975
65	229.367	229.034	227.021	224.020	220.340	215.866	210.898	205.953	201.031	196.178
70	170.142	169.797	168.084	165.692	162.702	159.286	155.595	151.834	148.120	144.474
75	114.632	114.287	113.033	111.320	109.261	106.927	104.385	101.832	99.394	97.014
80	65.573	65.274	64.526	63.595	62.491	61.249	59.869	58.558	57.258	56.062
85	27.772	27.577	27.278	26.921	26.461	25.967	25.449	24.966	24.460	24.196
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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>
0	884.775	884.775	884.775	884.775	884.775	884.775	884.775	884.775	884.775
5	876.978	876.369	875.863	874.966	874.379	873.620	873.505	873.816	873.965
10	851.885	850.275	848.734	847.159	845.767	844.640	843.766	843.858	843.893
15	811.992	808.875	805.954	803.263	801.170	799.146	797.674	797.341	797.260
20	759.678	754.929	750.559	746.683	743.567	740.715	738.346	737.886	737.610
25	697.808	692.035	686.193	681.363	677.177	673.405	670.864	669.679	669.645
30	630.303	623.150	616.929	611.294	606.429	602.140	599.299	598.149	597.885
35	560.303	552.529	545.790	539.683	534.313	529.793	526.930	525.504	525.228
40	489.808	482.149	475.295	469.016	463.576	459.206	456.492	455.147	454.664
45	421.429	414.126	407.617	401.591	396.531	392.242	389.769	388.412	387.860
50	356.408	349.841	343.620	338.134	333.500	330.015	327.416	326.105	325.829
55	295.952	289.915	284.498	279.634	275.758	272.987	270.537	269.284	269.479
60	243.121	239.165	234.508	230.506	227.171	224.744	223.042	221.777	221.869
65	191.647	187.484	183.816	180.550	178.227	175.961	174.892	173.868	173.857
70	141.093	138.057	135.240	133.112	131.169	129.858	128.823	128.156	128.041
75	94.783	92.897	91.114	89.700	88.596	87.791	86.997	86.606	86.434
80	54.912	54.015	53.141	52.486	51.980	51.520	51.117	50.910	50.784
85	23.897	23.667	23.471	23.322	23.195	23.092	23.011	22.965	22.977
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	311.68	N.A.	16.10
0-30	635.55	N.A.	32.90
0-40	992.32	N.A.	51.30
0-60	1602.31	N.A.	82.80
0-80	1905.38	N.A.	98.50
0-90	1934.38	N.A.	100.00
10-90	1851.51	N.A.	95.70
20-40	680.63	N.A.	35.20
20-50	1015.22	N.A.	52.50
40-70	807.26	N.A.	41.70
60-80	303.08	N.A.	15.70
70-80	105.81	N.A.	5.50
80-90	29.00	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	1934.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.87
10-20	228.81
20-30	323.87
30-40	356.76
40-50	334.59
50-60	275.40
60-70	197.27
70-80	105.81
80-90	29.00
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

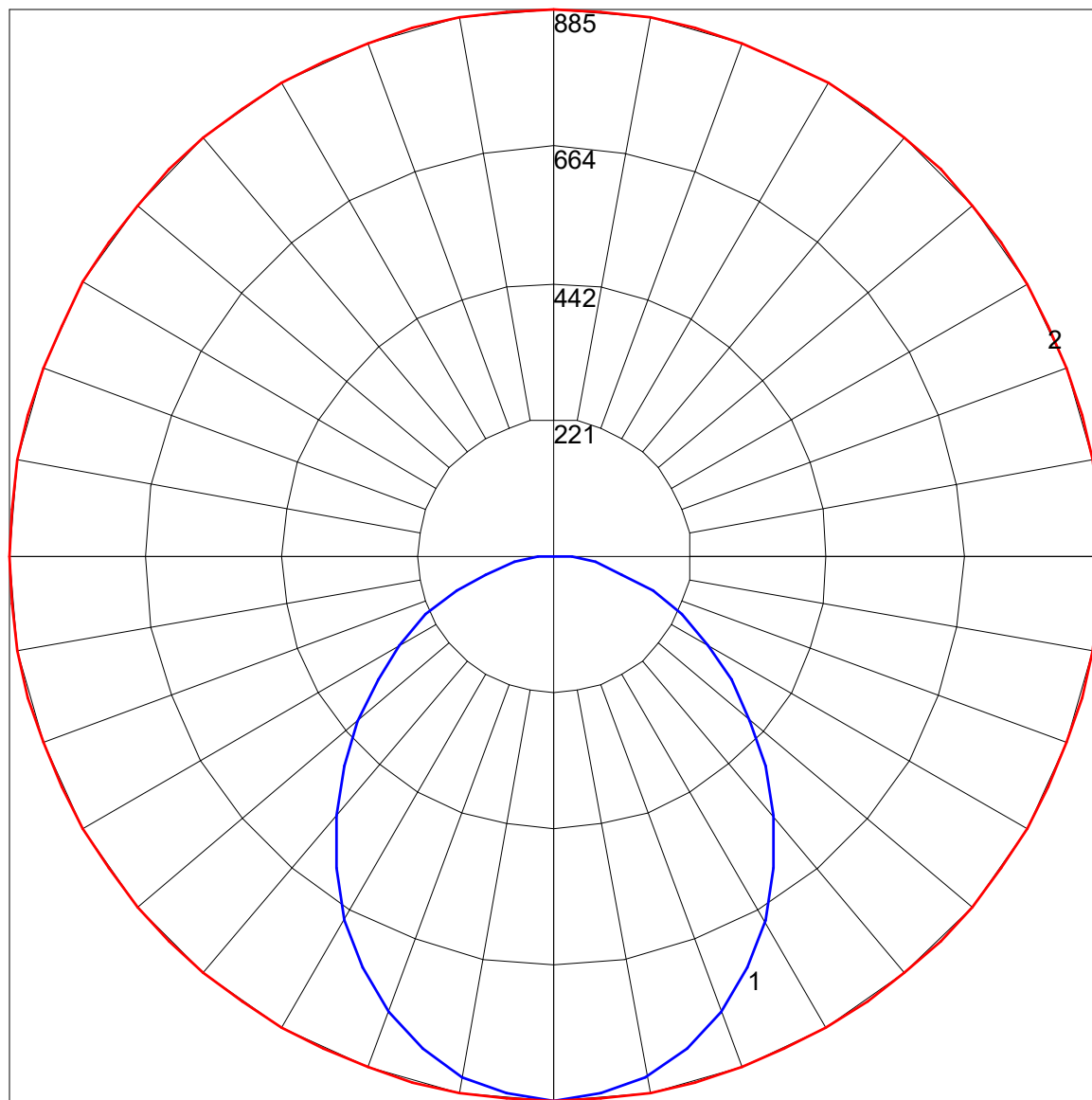
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	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	70	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	73	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 = 884.775 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.)