



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-PSTD-REG3-LED4-LO-04-SAL-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412304R01
 [TESTLAB]
 [ISSUEDATE]
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-REG3-LED4LO-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.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	16
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4304	3820	3450
55	3823	3314	2955
65	3413	2919	2587
75	2785	2357	2100
85	2004	1746	1658

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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	653.965	653.965	653.965	653.965	653.965	653.965	653.965	653.965	653.965	653.965
5	647.760	647.955	647.836	647.726	647.904	648.448	648.907	649.035	649.001	648.652
10	634.330	634.134	634.058	633.752	633.556	633.701	633.386	632.876	632.077	630.913
15	612.221	612.315	611.788	611.125	610.411	609.595	608.252	606.441	604.665	602.591
20	582.735	582.488	581.732	580.465	578.808	576.836	574.481	571.566	568.557	565.165
25	546.117	545.794	544.731	542.742	540.209	537.319	533.707	529.661	525.283	520.557
30	503.600	503.260	502.002	499.537	496.222	492.269	487.730	482.741	477.241	471.631
35	457.334	456.960	455.277	452.277	448.375	443.921	438.600	432.948	426.709	420.223
40	408.162	407.728	405.722	402.475	398.242	393.380	387.796	381.591	375.020	368.433
45	357.680	357.068	355.113	351.739	347.557	342.550	336.872	330.387	324.012	317.450
50	307.105	306.672	304.615	301.368	297.305	292.485	286.901	280.900	274.737	268.923
55	257.746	257.278	255.315	252.297	248.693	244.256	239.258	233.750	228.548	223.414
60	214.455	214.217	212.483	209.848	206.576	202.683	198.169	193.537	189.100	184.765
65	169.533	169.286	167.799	165.580	162.860	159.554	155.882	152.227	148.589	145.002
70	125.758	125.503	124.236	122.468	120.258	117.734	115.005	112.226	109.480	106.786
75	84.728	84.473	83.547	82.280	80.759	79.033	77.155	75.268	73.466	71.706
80	48.467	48.246	47.694	47.005	46.189	45.271	44.251	43.282	42.322	41.438
85	20.528	20.383	20.162	19.899	19.559	19.193	18.811	18.454	18.080	17.884
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**

	<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	653.965	653.965	653.965	653.965	653.965	653.965	653.965	653.965	653.965
5	648.202	647.751	647.377	646.714	646.281	645.720	645.635	645.864	645.975
10	629.655	628.465	627.326	626.161	625.133	624.300	623.654	623.722	623.747
15	600.168	597.865	595.706	593.717	592.170	590.674	589.586	589.339	589.280
20	561.502	557.991	554.761	551.897	549.593	547.485	545.734	545.394	545.190
25	515.772	511.505	507.187	503.617	500.523	497.735	495.856	494.981	494.955
30	465.877	460.590	455.991	451.826	448.231	445.060	442.961	442.111	441.915
35	414.137	408.391	403.410	398.897	394.927	391.587	389.470	388.416	388.212
40	362.032	356.371	351.305	346.664	342.644	339.414	337.408	336.413	336.056
45	311.491	306.094	301.283	296.829	293.089	289.918	288.091	287.088	286.680
50	263.432	258.579	253.980	249.926	246.500	243.925	242.004	241.035	240.831
55	218.748	214.285	210.282	206.686	203.822	201.773	199.963	199.036	199.181
60	179.699	176.775	173.332	170.374	167.909	166.116	164.858	163.923	163.991
65	141.653	138.576	135.864	133.450	131.733	130.059	129.268	128.512	128.503
70	104.287	102.043	99.960	98.388	96.951	95.982	95.217	94.724	94.639
75	70.057	68.663	67.346	66.300	65.484	64.889	64.303	64.014	63.886
80	40.588	39.925	39.279	38.794	38.420	38.080	37.783	37.630	37.536
85	17.663	17.493	17.349	17.238	17.145	17.068	17.009	16.975	16.983
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	230.38	N.A.	16.10
0-30	469.76	N.A.	32.90
0-40	733.45	N.A.	51.30
0-60	1184.31	N.A.	82.80
0-80	1408.33	N.A.	98.50
0-90	1429.76	N.A.	100.00
10-90	1368.51	N.A.	95.70
20-40	503.08	N.A.	35.20
20-50	750.38	N.A.	52.50
40-70	596.67	N.A.	41.70
60-80	224.01	N.A.	15.70
70-80	78.21	N.A.	5.50
80-90	21.44	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	1429.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.25
10-20	169.12
20-30	239.38
30-40	263.70
40-50	247.31
50-60	203.56
60-70	145.81
70-80	78.21
80-90	21.44
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

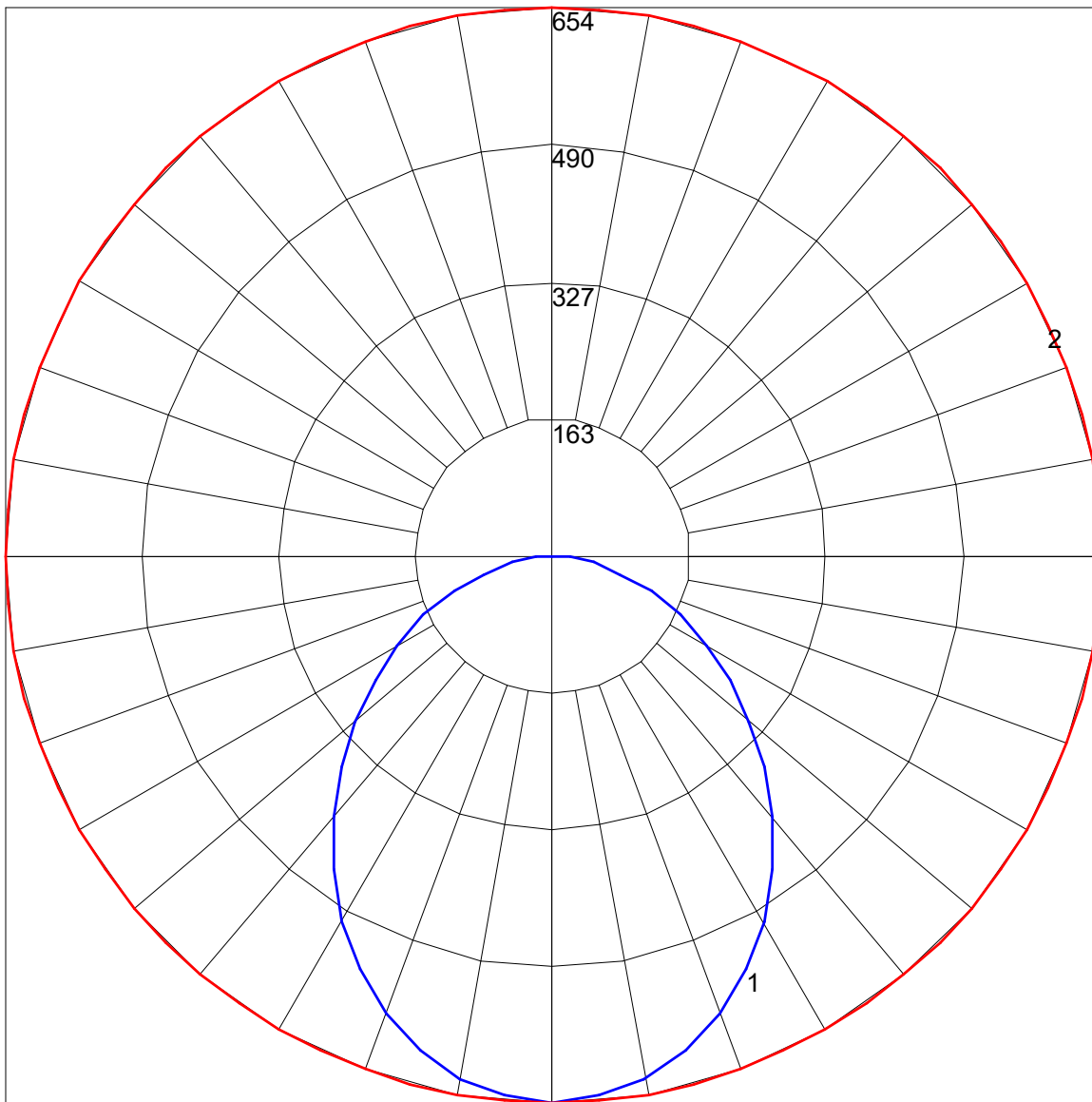
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 653.965 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.)