



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-SUS-LED4-HO-SAL-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021507503R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/4/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] BIO-SUS-LED4-HO-SAL-D1
 [LUMINAIRE] 4-1/2"L. X 48"W. X 5"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	3821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.94 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	8953	9931	11226
55	7594	8575	9954
65	6614	7518	8859
75	5361	6048	7216
85	4162	4394	5036

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871
5	1738.030	1737.369	1736.634	1736.683	1737.271	1738.618	1740.578	1741.166	1741.999	1742.342
10	1679.573	1678.985	1677.907	1678.912	1680.578	1682.856	1685.919	1688.050	1691.137	1693.734
15	1586.988	1586.841	1586.081	1588.580	1592.255	1596.322	1601.565	1606.784	1612.835	1619.916
20	1469.045	1469.216	1469.045	1472.671	1478.404	1484.774	1492.638	1505.231	1515.301	1518.143
25	1333.486	1333.241	1334.050	1338.680	1346.545	1355.806	1370.604	1374.475	1386.725	1398.705
30	1189.206	1188.201	1189.426	1195.135	1204.518	1219.414	1224.853	1237.348	1252.661	1271.256
35	1042.671	1041.446	1043.455	1049.213	1064.109	1069.229	1081.381	1100.908	1110.340	1127.049
40	899.714	898.930	901.306	907.823	916.643	927.276	945.357	953.883	969.441	988.404
45	765.405	764.694	767.463	775.352	780.791	793.237	803.968	820.064	832.412	849.072
50	640.479	639.891	642.537	649.569	654.983	664.930	676.078	689.014	702.709	717.997
55	526.603	526.260	528.931	533.243	539.319	547.453	557.669	568.988	581.557	594.640
60	427.795	427.672	430.049	433.356	438.403	445.288	453.446	462.021	473.977	485.639
65	337.978	337.733	339.693	342.143	346.357	351.404	358.337	365.883	374.777	384.136
70	248.700	248.798	249.998	252.301	254.800	258.892	263.179	269.035	275.478	282.510
75	167.752	167.972	168.634	170.275	171.941	174.073	177.160	180.516	184.510	189.263
80	98.221	98.368	98.760	99.299	100.328	101.430	102.729	104.321	106.208	108.486
85	43.855	43.831	43.904	44.002	44.149	44.394	44.786	45.203	45.717	46.305
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	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871	1756.871
5	1742.220	1743.175	1742.930	1741.362	1740.064	1738.741	1738.986	1739.819	1740.088
10	1696.086	1698.928	1700.717	1701.280	1701.525	1701.721	1703.044	1704.514	1704.882
15	1629.495	1635.816	1638.438	1638.119	1639.001	1640.104	1642.407	1644.440	1645.126
20	1526.326	1535.023	1542.569	1549.160	1554.697	1559.009	1563.492	1567.706	1569.176
25	1411.225	1428.375	1437.685	1442.683	1450.449	1456.697	1462.062	1466.154	1467.624
30	1280.787	1295.830	1309.354	1321.506	1334.540	1345.663	1350.563	1353.429	1354.752
35	1144.028	1165.024	1176.319	1190.431	1202.681	1212.162	1220.345	1226.176	1228.161
40	1004.084	1021.920	1042.647	1054.529	1067.710	1078.196	1087.139	1093.386	1095.493
45	867.055	884.107	901.478	919.216	930.927	942.025	951.017	957.411	959.788
50	735.686	750.729	767.487	783.706	796.030	806.981	815.556	821.681	823.960
55	608.850	623.427	638.421	652.509	664.832	674.730	682.644	688.303	690.312
60	497.571	509.894	522.561	535.007	546.007	554.631	561.540	566.440	568.131
65	394.205	404.324	414.589	424.659	433.871	441.343	447.125	451.217	452.662
70	290.203	297.871	305.785	313.478	320.583	326.487	331.142	334.376	335.601
75	194.285	199.430	204.796	210.137	215.086	219.275	222.583	224.935	225.817
80	110.814	113.582	116.498	119.487	122.157	124.485	126.420	127.792	128.307
85	46.942	47.677	48.559	49.564	50.544	51.499	52.332	52.847	53.067
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	619.31	N.A.	16.20
0-30	1263.07	N.A.	33.10
0-40	1970.76	N.A.	51.60
0-60	3173.07	N.A.	83.00
0-80	3765.07	N.A.	98.50
0-90	3820.96	N.A.	100.00
10-90	3656.38	N.A.	95.70
20-40	1351.46	N.A.	35.40
20-50	2012.96	N.A.	52.70
40-70	1587.61	N.A.	41.60
60-80	592.00	N.A.	15.50
70-80	206.70	N.A.	5.40
80-90	55.89	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	3820.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.58
10-20	454.73
20-30	643.76
30-40	707.69
40-50	661.50
50-60	540.80
60-70	385.30
70-80	206.70
80-90	55.89
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

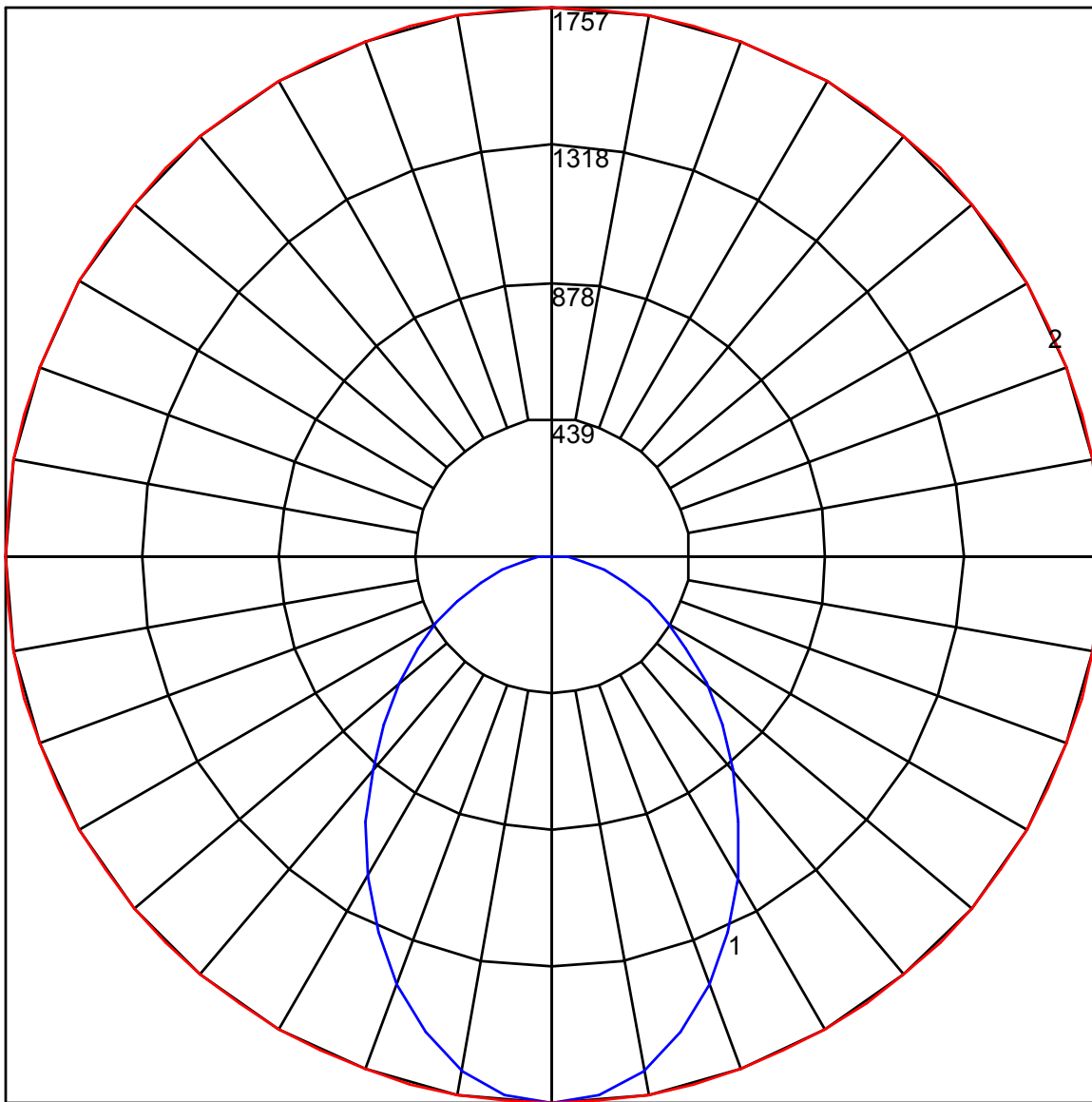
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	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	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	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	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 1756.871 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.)