



IES INDOOR REPORT

PHOTOMETRIC FILENAME : S1-LED4-MO-04-WA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021508901
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/5/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] S1-LED4-MO-04-WA
 [LUMINAIRE] 2-1/2"L. X 48"W. X 3-1/4"H. LINEAR DIRECT 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.
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	28
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5638	5566	5948
55	5477	5335	5634
65	5290	5058	5116
75	5078	4708	4099
85	4999	4480	1882

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	506.955	506.955	506.955	506.955	506.955	506.955	506.955	506.955	506.955	506.955
5	513.128	513.090	513.000	512.872	512.242	511.762	511.387	510.848	510.248	509.865
10	522.795	522.638	522.135	521.467	520.995	520.778	520.523	519.352	517.268	515.340
15	530.827	530.543	530.070	529.883	530.130	527.790	525.518	524.033	522.195	519.322
20	535.755	535.350	535.095	535.852	533.197	531.683	529.942	526.372	517.898	512.205
25	537.023	536.452	537.435	535.538	534.465	532.313	524.663	518.122	512.617	507.022
30	534.112	533.737	534.780	532.410	531.555	523.237	517.455	512.048	504.908	498.045
35	527.220	527.003	527.190	526.462	520.110	513.788	508.260	501.428	495.960	484.072
40	516.540	516.097	516.000	514.928	506.610	501.142	494.377	488.723	476.678	466.845
45	501.615	500.955	500.385	499.027	490.395	484.170	477.780	467.190	457.327	446.835
50	482.715	481.920	481.103	478.762	470.355	463.590	456.757	445.192	434.160	422.400
55	460.020	459.255	458.152	454.642	446.767	439.118	431.820	419.430	407.317	394.358
60	433.905	432.990	431.535	427.267	419.550	411.428	403.245	390.277	377.603	363.728
65	404.445	403.493	401.820	396.600	389.145	380.610	371.595	358.260	344.790	330.315
70	372.390	371.475	369.293	363.825	356.295	347.100	336.353	323.835	309.795	294.465
75	338.123	337.238	334.642	329.077	321.270	311.978	300.757	287.760	273.285	257.572
80	303.915	303.060	299.902	294.337	286.815	277.012	265.507	253.148	238.477	222.232
85	273.442	272.625	269.400	263.835	256.058	247.238	235.762	222.105	206.708	190.208
90	256.185	255.360	252.232	247.208	239.400	229.695	218.280	204.593	189.232	172.792
95	251.063	250.050	246.667	241.298	233.648	223.905	212.370	199.028	184.238	167.730
100	243.795	243.097	239.775	234.465	226.882	217.268	206.107	192.930	178.200	162.173
105	234.938	234.278	231.180	225.900	218.722	209.333	198.300	185.498	171.150	155.565
110	224.505	223.875	220.905	215.850	208.890	199.852	189.420	176.873	163.058	147.720
115	212.498	211.898	209.145	204.308	197.670	188.977	179.018	167.070	153.570	139.252
120	198.900	198.368	195.803	191.407	184.928	176.775	167.355	156.067	143.325	129.607
125	183.982	183.412	181.072	176.903	170.827	163.343	154.425	143.933	131.917	119.213
130	167.857	167.227	165.113	161.190	155.692	148.702	140.482	130.748	119.745	107.610
135	150.532	149.903	148.042	144.465	139.440	133.118	125.625	116.550	104.670	92.243
140	132.135	131.632	129.960	126.795	122.243	116.588	109.282	98.565	87.690	77.257
145	113.168	112.635	111.180	108.427	104.347	98.407	89.430	80.640	71.760	63.285
150	93.315	92.873	91.642	89.370	85.103	77.453	70.560	63.765	57.248	51.525
155	73.343	72.960	71.948	69.922	63.540	58.072	53.138	49.028	44.888	40.245
160	53.737	53.392	52.477	48.428	44.160	40.718	38.475	35.910	32.625	28.613
165	34.898	34.650	32.400	29.430	27.247	26.302	25.035	23.137	20.520	18.210
170	17.512	17.070	14.857	14.130	14.070	13.717	13.148	12.262	11.258	10.335
175	6.638	5.910	5.880	6.067	6.165	6.105	6.067	5.910	5.723	5.535
180	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	506.955	506.955	506.955	506.955	506.955	506.955	506.955	506.955	506.955	
5	509.520	509.048	508.822	508.418	507.975	507.652	507.405	507.435	507.308	
10	513.345	511.800	510.375	508.920	507.277	505.725	504.465	503.670	503.385	
15	515.970	510.375	504.397	499.598	495.863	492.165	489.450	487.425	486.442	
20	506.835	501.615	496.275	490.965	485.685	480.660	476.205	472.980	471.772	
25	500.257	492.990	486.315	480.690	474.810	468.142	461.220	456.067	453.885	
30	492.608	481.860	471.368	462.075	453.285	444.683	436.942	431.092	428.340	
35	474.022	463.905	453.533	442.538	431.850	421.762	413.137	406.500	403.245	
40	455.783	445.822	433.305	419.175	407.002	394.868	384.053	375.233	371.123	
45	433.905	420.915	407.348	392.873	379.530	365.467	352.567	342.360	337.553	
50	408.555	394.770	379.567	363.600	348.330	332.842	318.615	307.140	301.575	
55	380.100	364.740	348.683	331.387	314.700	297.720	281.978	269.205	262.882	
60	348.488	332.085	314.918	296.460	278.340	260.040	243.255	229.252	222.232	

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CANDELA TABULATION - (Cont.)

65	313.935	296.738	278.535	259.125	240.157	220.493	202.380	187.335	179.813
70	277.455	259.598	240.570	220.080	199.980	179.303	160.080	144.150	136.058
75	239.963	220.965	201.495	180.188	159.292	137.670	117.690	101.002	92.498
80	203.895	184.583	164.227	142.252	120.728	98.347	77.010	61.358	51.465
85	171.780	152.625	131.602	109.665	87.757	65.692	43.943	26.332	17.512
90	154.613	134.887	114.593	92.685	70.718	47.767	27.000	9.735	1.012
95	149.430	130.148	109.853	87.915	66.382	44.640	23.738	7.965	0.000
100	144.248	125.370	105.397	83.933	62.940	41.947	22.290	7.335	0.000
105	137.857	119.745	100.365	79.597	59.400	39.292	20.640	6.952	0.000
110	130.875	113.205	94.485	74.858	55.575	36.795	19.155	6.293	0.000
115	123.097	106.155	88.388	70.020	51.750	33.885	17.828	5.782	0.000
120	114.375	98.377	81.683	64.455	47.167	30.668	15.870	5.093	0.000
125	105.203	90.000	73.972	57.563	41.572	26.775	13.560	4.553	0.000
130	93.067	78.397	64.080	49.508	35.880	22.538	11.572	4.140	0.000
135	79.410	66.825	54.502	41.947	30.188	18.652	9.488	3.922	0.000
140	66.668	55.950	45.742	34.898	24.622	15.398	7.875	3.795	0.000
145	55.065	46.913	37.432	27.915	19.883	12.203	6.765	3.697	0.000
150	45.045	37.432	29.460	22.253	15.615	9.765	5.910	0.000	0.000
155	34.328	28.290	22.575	17.100	12.105	7.995	5.340	0.000	0.000
160	24.090	20.040	16.185	12.300	9.135	6.638	4.867	0.000	0.000
165	15.682	13.057	10.748	8.760	7.020	5.595	4.582	0.000	0.000
170	9.293	8.250	7.305	6.420	5.692	5.122	4.710	0.000	0.000
175	5.340	5.152	4.995	4.838	4.680	4.612	4.522	0.000	0.000
180	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	194.10	N.A.	6.90
0-30	426.14	N.A.	15.10
0-40	724.53	N.A.	25.70
0-60	1401.65	N.A.	49.70
0-80	1967.74	N.A.	69.80
0-90	2159.49	N.A.	76.60
10-90	2110.69	N.A.	74.80
20-40	530.43	N.A.	18.80
20-50	866.67	N.A.	30.70
40-70	988.76	N.A.	35.10
60-80	566.09	N.A.	20.10
70-80	254.44	N.A.	9.00
80-90	191.76	N.A.	6.80
90-110	311.29	N.A.	11.00
90-120	435.43	N.A.	15.40
90-130	531.52	N.A.	18.80
90-150	636.49	N.A.	22.60
90-180	660.45	N.A.	23.40
110-180	349.17	N.A.	12.40
0-180	2819.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.81
10-20	145.29
20-30	232.04
30-40	298.39
40-50	336.24
50-60	340.88
60-70	311.64
70-80	254.44
80-90	191.76
90-100	163.89
100-110	147.39
110-120	124.14
120-130	96.09
130-140	66.12
140-150	38.85
150-160	18.00
160-170	5.37
170-180	0.59

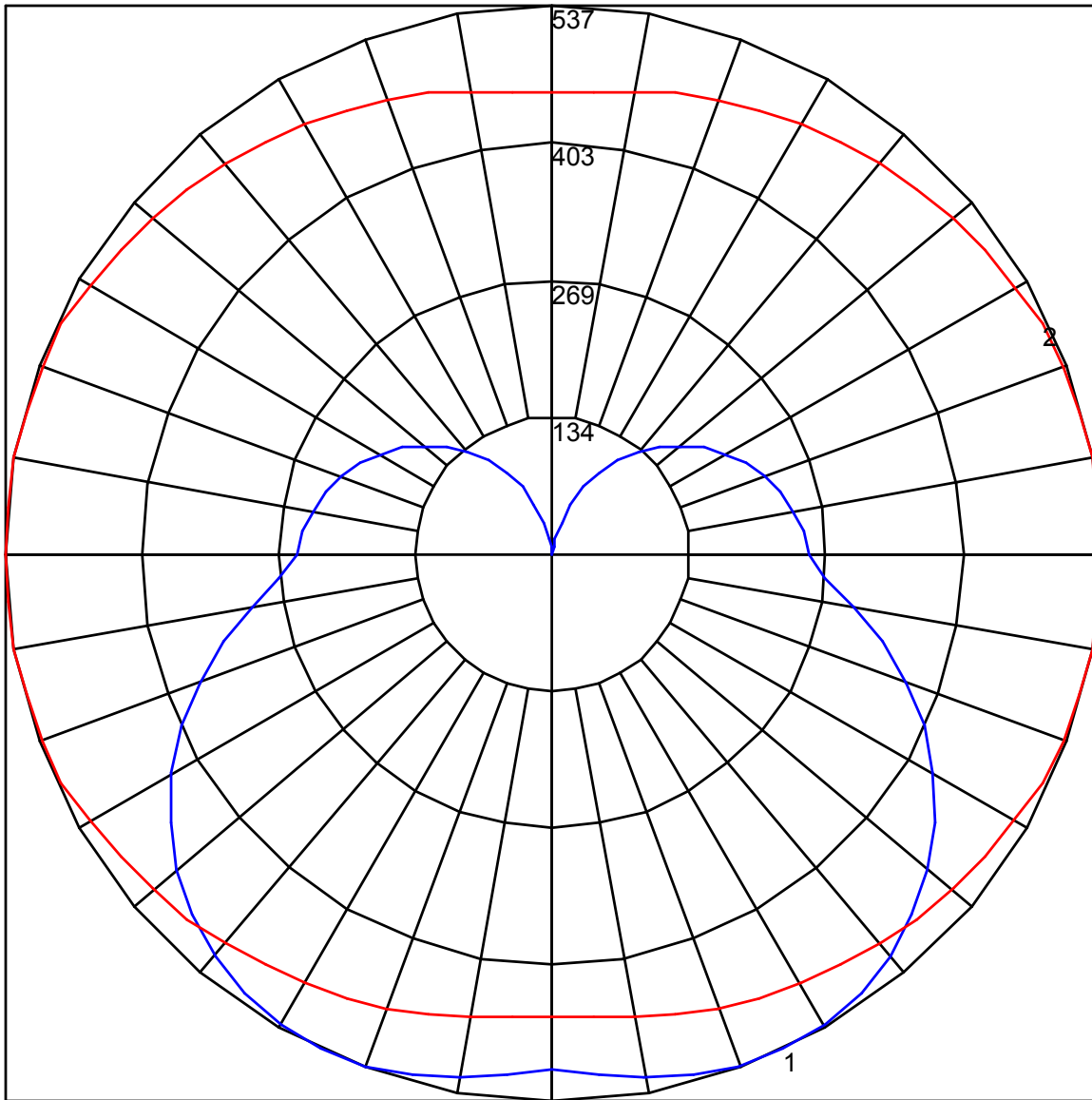
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	101	95	89	85	95	90	85	81	81	78	74	74	71	68	66	64	62	58
2	90	81	73	67	85	77	70	64	70	64	59	63	58	54	56	53	50	46
3	82	70	61	54	77	67	59	52	60	54	48	54	49	44	49	44	41	37
4	74	61	52	45	70	58	50	43	53	46	40	48	42	37	43	38	34	31
5	68	54	45	38	64	52	43	37	47	40	34	43	36	32	38	33	29	26
6	62	49	39	33	59	46	38	32	42	35	29	38	32	27	35	29	25	23
7	58	44	35	28	54	42	33	27	38	31	26	35	29	24	31	26	22	20
8	53	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	17
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	26	21	18	16
10	47	33	25	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

POLAR GRAPH



Maximum Candela = 537.435 Located At Horizontal Angle = 10, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)