



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031506602
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/20/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] Wave2-LED4-LO-Up
 [LUMINAIRE] 48-1/4"L. X 9"W. X 2-3/4"H. LED LUMINAIRE
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [TEST CONDITION] PHOTOMETRIC AND ELECTRICAL VALUES ARE PRORATED FROM
 [MORE] LIGHT LABORATORY L021502301. PHOTOMETRIC VALUES ONLY INCLUDE
 [MORE] VERTICAL 0 TO 90 DEGREES. INPUT POWER AND CURRENT IS DIVIDED BY 2.
 [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	1554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	16.725	19.777	27.848	35.617	39.435	43.117	52.185	72.983	102.578	185.077
100	31.200	33.840	39.907	48.682	60.922	74.145	87.502	99.082	113.130	170.303
105	49.230	51.765	57.630	64.748	71.407	82.043	96.188	111.570	150.435	200.273
110	68.093	70.853	77.302	85.560	93.330	99.472	109.125	122.392	144.360	182.512
115	89.317	91.912	98.640	107.933	117.855	126.435	133.380	143.887	164.692	193.230
120	111.728	114.240	120.900	129.352	141.990	151.553	163.028	174.390	191.295	216.030
125	132.232	134.550	140.760	149.303	162.322	174.585	186.188	198.315	214.252	236.903
130	154.357	155.880	161.662	171.030	183.000	196.042	208.493	221.250	236.077	255.757
135	173.407	174.840	180.120	188.752	200.100	213.053	226.455	239.077	252.743	269.288
140	189.938	191.227	195.713	203.235	213.637	225.825	238.808	251.153	264.060	277.837
145	205.958	206.963	210.495	216.548	225.188	235.605	247.170	258.750	270.488	281.962
150	222.480	223.148	225.690	229.988	236.632	244.575	253.995	263.505	273.233	283.252
155	238.200	238.425	239.993	243.097	247.725	253.282	260.310	267.502	275.160	282.983
160	251.692	252.097	253.200	254.857	258.127	261.923	266.408	271.207	276.053	281.902
165	263.228	263.512	264.262	265.035	267.188	269.257	271.928	274.995	277.238	280.567
170	271.815	272.033	272.475	272.640	273.803	274.688	276.173	277.305	278.632	279.960
175	277.200	277.012	277.050	276.892	277.897	278.145	278.880	279.405	279.570	280.170
180	279.728	279.728	279.728	279.728	279.728	279.728	279.728	279.728	279.728	279.728

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

CANDELA TABULATION - (Cont.)

65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	256.373	285.728	265.665	223.545	183.202	159.540	143.370	134.535	132.015
100	259.665	381.967	492.930	549.705	549.967	525.638	497.430	478.118	471.548
105	251.903	310.673	386.092	467.505	535.508	584.783	613.155	626.940	630.697
110	228.255	282.120	341.363	400.627	452.962	494.483	524.798	541.920	548.033
115	231.180	276.038	324.683	372.600	415.298	447.473	470.850	484.410	489.450
120	248.910	287.370	328.410	367.950	402.803	429.570	449.137	460.072	465.045
125	266.130	299.632	334.965	369.390	399.105	423.248	440.498	449.490	453.488
130	280.815	309.743	340.207	369.382	394.553	415.350	429.540	438.540	441.563
135	289.702	312.990	337.830	362.467	384.262	401.760	414.945	422.610	425.332
140	293.288	310.845	329.723	348.570	365.738	380.152	390.308	397.673	400.500
145	293.887	306.450	319.545	332.647	344.423	354.683	362.100	367.440	368.902
150	292.740	302.197	310.522	319.118	326.355	332.685	337.455	339.915	341.055
155	290.272	297.345	303.150	308.985	313.507	317.610	320.355	322.110	322.080
160	286.725	291.728	296.235	300.075	302.918	305.985	307.567	308.985	309.623
165	283.560	286.507	289.065	291.353	293.183	294.915	295.530	296.918	297.525
170	281.235	282.630	283.605	284.535	285.135	285.848	286.275	287.115	287.392
175	280.642	280.837	280.658	280.853	280.762	281.055	281.040	281.415	282.120
180	279.728	279.728	279.728	279.728	279.728	279.728	279.728	279.728	279.728

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	424.32	N.A.	27.30
90-120	675.27	N.A.	43.40
90-130	917.79	N.A.	59.00
90-150	1317.95	N.A.	84.80
90-180	1554.35	N.A.	100.00
110-180	1130.03	N.A.	72.70
0-180	1554.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	141.02
100-110	283.30
110-120	250.95
120-130	242.53
130-140	221.30
140-150	178.86
150-160	130.24
160-170	79.47
170-180	26.69

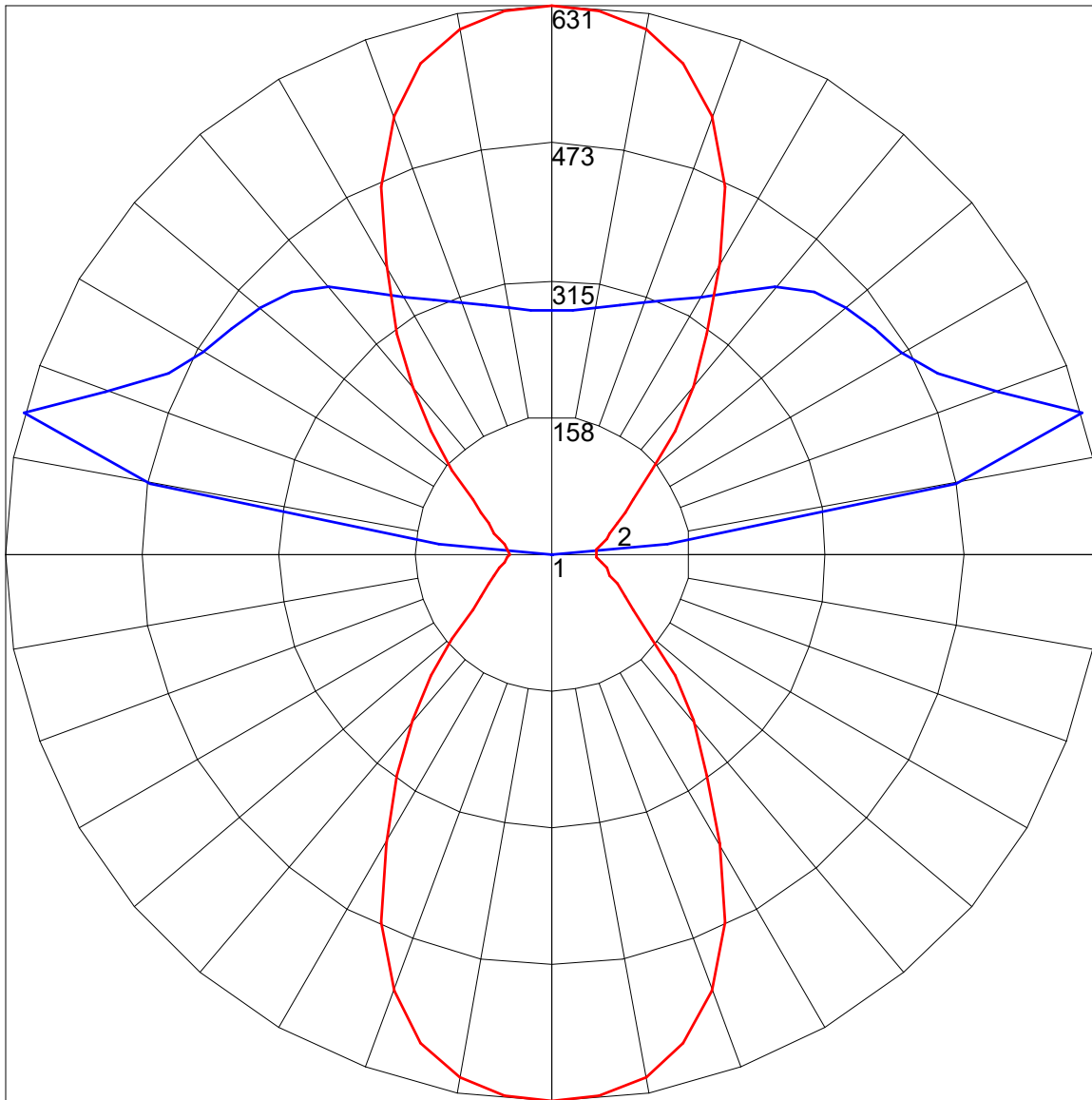
IES INDOOR REPORT
PHOTOMETRIC FILENAME : WAVE2-LED4-LO-UP.IES

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 630.697 Located At Horizontal Angle = 90, Vertical Angle = 105
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (105) (Through Max. Cd.)