



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-HO-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-HO-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	3399
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	34
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

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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

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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	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	36.572	43.247	60.893	77.884	86.231	94.284	114.111	159.588	224.303	404.703
100	68.224	73.997	87.264	106.452	133.217	162.130	191.339	216.660	247.378	372.395
105	107.650	113.193	126.018	141.581	156.144	179.400	210.330	243.966	328.951	437.929
110	148.896	154.931	169.035	187.091	204.082	217.513	238.620	267.632	315.667	399.094
115	195.308	200.982	215.693	236.012	257.710	276.471	291.658	314.634	360.128	422.530
120	244.311	249.805	264.368	282.851	310.485	331.395	356.487	381.333	418.298	472.386
125	289.148	294.216	307.795	326.475	354.945	381.759	407.130	433.649	468.499	518.027
130	337.528	340.858	353.502	373.986	400.160	428.680	455.904	483.800	516.223	559.256
135	379.184	382.317	393.862	412.739	437.552	465.875	495.182	522.783	552.664	588.842
140	415.330	418.151	427.958	444.407	467.154	493.804	522.192	549.187	577.411	607.538
145	450.360	452.558	460.282	473.517	492.410	515.190	540.478	565.800	591.466	616.558
150	486.490	487.949	493.509	502.906	517.436	534.804	555.402	576.198	597.468	619.379
155	520.864	521.356	524.784	531.573	541.692	553.844	569.211	584.939	601.683	618.788
160	550.368	551.253	553.664	557.288	564.439	572.737	582.544	593.040	603.635	616.427
165	575.591	576.214	577.854	579.543	584.250	588.776	594.615	601.322	606.226	613.508
170	594.369	594.844	595.812	596.173	598.715	600.650	603.897	606.374	609.276	612.179
175	606.144	605.734	605.816	605.472	607.669	608.210	609.818	610.966	611.326	612.638
180	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671

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

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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	560.601	624.791	580.921	488.818	400.603	348.861	313.502	294.183	288.673
100	567.801	835.236	1077.874	1202.022	1202.596	1149.394	1087.714	1045.484	1031.117
105	550.827	679.337	844.256	1022.278	1170.976	1278.724	1340.766	1370.909	1379.125
110	499.118	616.902	746.446	876.039	990.478	1081.268	1147.557	1184.998	1198.364
115	505.514	603.602	709.972	814.752	908.117	978.473	1029.592	1059.243	1070.264
120	544.283	628.382	718.123	804.584	880.795	939.326	982.114	1006.025	1016.898
125	581.938	655.196	732.457	807.733	872.710	925.501	963.221	982.885	991.626
130	614.049	677.304	743.920	807.716	862.755	908.232	939.261	958.941	965.550
135	633.483	684.405	738.722	792.596	840.254	878.515	907.346	924.107	930.060
140	641.322	679.714	720.993	762.206	799.746	831.267	853.472	869.577	875.760
145	642.634	670.104	698.738	727.389	753.137	775.572	791.792	803.469	806.667
150	640.125	660.805	679.009	697.804	713.630	727.471	737.902	743.281	745.774
155	634.729	650.194	662.888	675.647	685.536	694.507	700.510	704.347	704.282
160	626.972	637.911	647.767	656.164	662.380	669.087	672.548	675.647	677.041
165	620.051	626.496	632.089	637.091	641.092	644.881	646.226	649.260	650.588
170	614.967	618.018	620.150	622.183	623.495	625.053	625.988	627.825	628.432
175	613.672	614.098	613.704	614.131	613.934	614.574	614.541	615.361	616.902
180	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671

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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	927.85	N.A.	27.30
90-120	1476.58	N.A.	43.40
90-130	2006.9	N.A.	59.00
90-150	2881.91	N.A.	84.80
90-180	3398.84	N.A.	100.00
110-180	2470.99	N.A.	72.70
0-180	3398.84	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	308.37
100-110	619.48
110-120	548.73
120-130	530.32
130-140	483.91
140-150	391.10
150-160	284.79
160-170	173.77
170-180	58.36

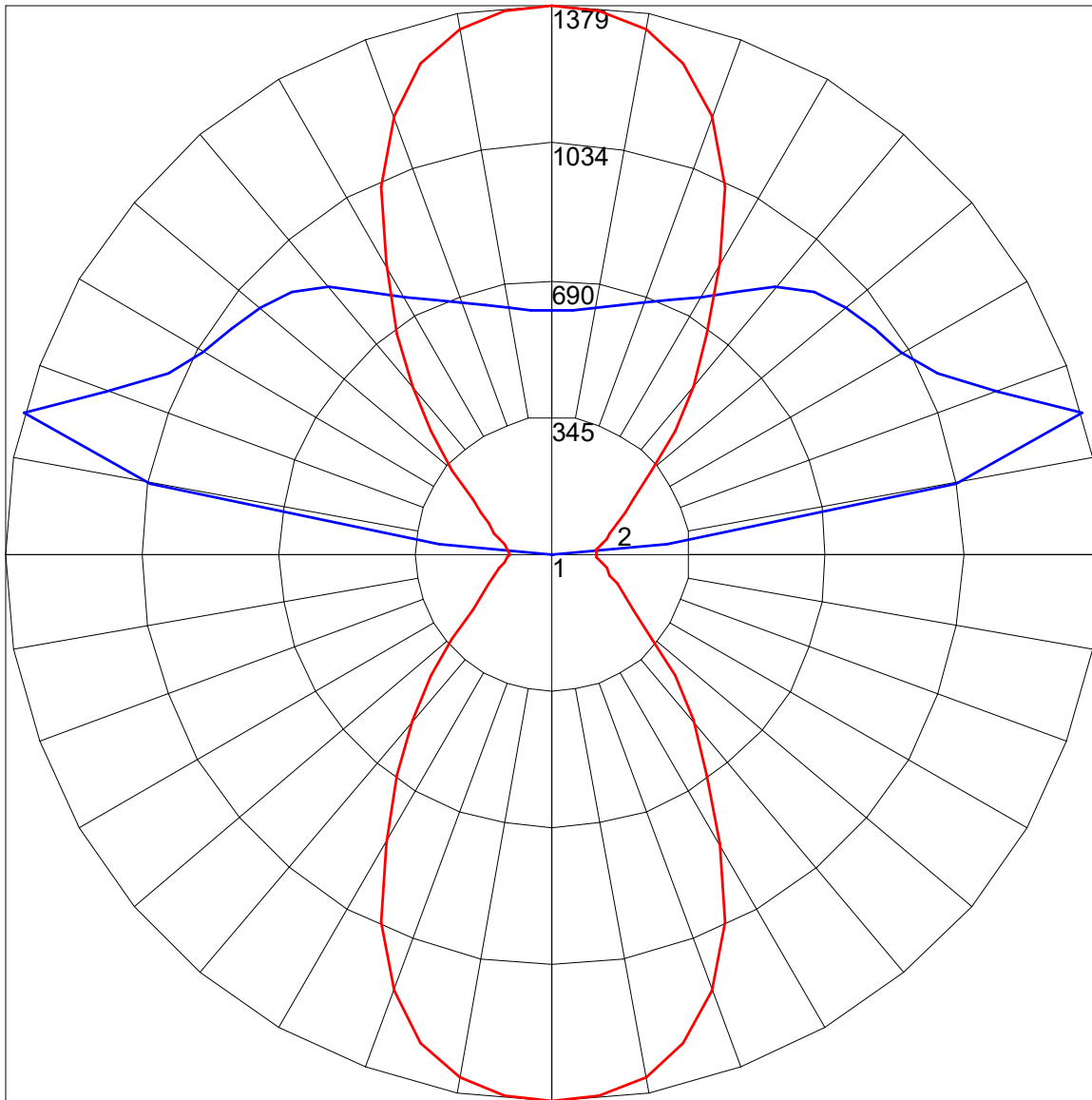
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1379.125 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.)