



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-HO-SAL-DOWN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L031506601
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 3/20/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] Wave2-LED4-HO-Down
 [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	3028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.12 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7924	6390	5993
55	7257	5460	5042
65	6646	4560	4177
75	5532	3374	3148
85	3866	2135	2172

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261
5	1111.921	1112.328	1111.709	1111.660	1112.312	1113.323	1114.480	1115.132	1115.588	1116.126
10	1093.779	1094.023	1093.241	1092.736	1092.931	1093.437	1093.926	1093.991	1093.681	1093.974
15	1056.713	1056.794	1056.224	1056.354	1057.136	1057.984	1058.864	1059.875	1061.081	1062.956
20	1010.828	1010.812	1010.486	1010.714	1011.415	1012.263	1013.404	1014.414	1015.066	1015.783
25	955.522	955.636	955.930	957.250	958.456	958.929	959.288	959.793	960.608	961.276
30	890.387	890.192	890.241	890.860	892.083	893.680	895.522	897.951	899.124	898.505
35	822.514	822.270	822.058	822.302	822.596	823.753	825.530	826.508	827.046	828.643
40	743.818	743.687	743.932	745.040	746.621	749.050	751.104	752.082	751.430	752.066
45	665.464	665.366	666.817	668.267	669.082	669.637	671.104	671.821	672.782	674.690
50	583.524	583.116	583.573	585.154	587.044	588.707	590.141	592.163	591.804	593.336
55	500.557	500.687	501.730	503.442	505.186	507.158	508.641	509.391	511.152	513.189
60	427.500	427.826	429.000	430.760	432.667	435.128	435.846	437.851	439.855	441.714
65	344.712	345.250	347.157	348.380	350.238	352.487	354.916	357.329	360.018	362.724
70	262.397	263.473	264.549	266.668	268.640	271.607	274.851	278.176	281.566	284.940
75	183.571	184.255	186.048	188.086	191.215	195.029	199.267	203.522	207.532	211.525
80	110.579	111.492	113.709	117.034	121.272	126.260	131.525	136.627	141.875	146.928
85	52.176	53.203	55.795	59.576	64.564	70.188	76.219	82.136	87.971	93.790
90	20.994	23.048	26.129	29.291	35.452	40.685	45.836	52.861	62.429	74.687

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261	1121.261
5	1117.137	1117.381	1116.827	1115.621	1114.235	1113.567	1113.420	1114.186	1114.480
10	1094.626	1095.067	1095.115	1094.561	1094.366	1094.007	1093.062	1093.143	1093.632
15	1063.004	1062.385	1061.766	1061.114	1060.364	1060.837	1061.277	1060.511	1060.608
20	1016.892	1019.125	1019.304	1017.642	1016.191	1015.897	1016.729	1016.794	1015.474
25	961.896	962.466	963.069	963.574	962.303	961.129	961.374	961.993	960.429
30	898.407	898.766	898.880	899.532	899.418	898.163	897.739	898.130	897.885
35	829.246	828.659	828.594	828.708	829.458	829.116	827.844	828.252	828.382
40	753.027	753.516	753.842	753.598	753.810	753.419	753.402	753.956	755.228
45	674.103	674.918	675.439	675.765	675.586	676.385	676.287	676.287	677.803
50	594.347	594.917	596.287	596.287	595.977	597.265	597.558	596.613	597.493
55	514.249	515.487	516.270	516.775	516.759	517.525	518.193	517.460	517.769
60	443.849	445.397	446.375	446.897	447.533	448.364	448.902	448.413	448.755
65	365.136	367.092	368.478	369.863	371.086	372.194	372.357	372.145	372.553
70	287.793	290.270	292.715	294.916	296.562	297.605	297.899	298.208	298.534
75	215.388	218.860	221.924	224.581	226.700	228.070	228.787	229.325	229.651
80	151.606	155.665	159.316	162.429	164.728	166.341	167.368	168.020	168.249
85	99.185	103.929	108.118	111.639	114.344	116.300	117.637	118.289	118.419
90	85.053	88.753	87.417	85.722	85.102	85.102	85.314	85.347	85.233

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.46	N.A.	13.40
0-30	846.51	N.A.	28.00
0-40	1363.32	N.A.	45.00
0-60	2342.17	N.A.	77.30
0-80	2922.9	N.A.	96.50
0-90	3028.12	N.A.	100.00
10-90	2922.4	N.A.	96.50
20-40	958.87	N.A.	31.70
20-50	1477.91	N.A.	48.80
40-70	1336.58	N.A.	44.10
60-80	580.73	N.A.	19.20
70-80	222.99	N.A.	7.40
80-90	105.22	N.A.	3.50
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	3028.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.72
10-20	298.73
20-30	442.06
30-40	516.81
40-50	519.04
50-60	459.80
60-70	357.74
70-80	222.99
80-90	105.22
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

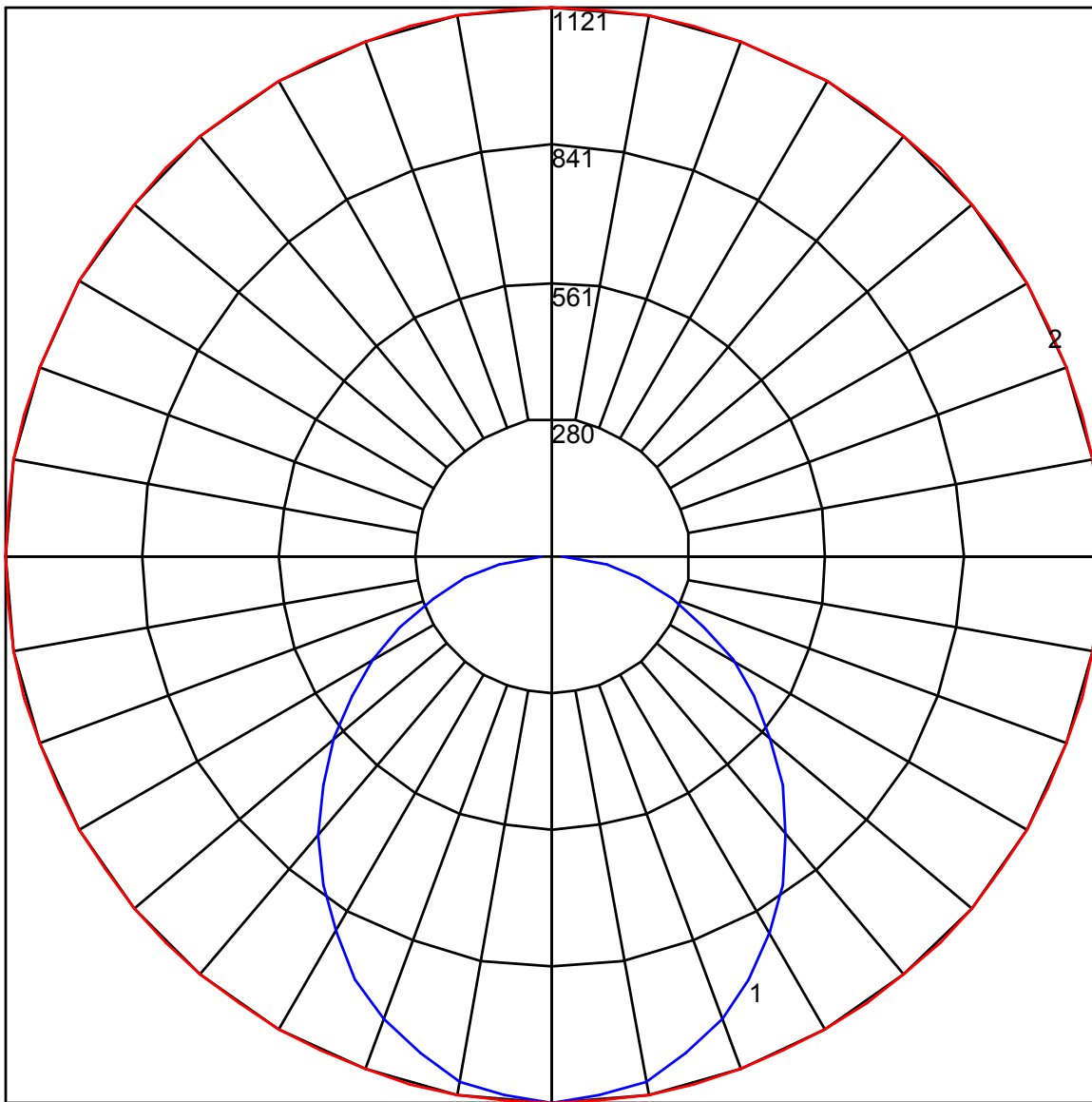
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	103	99	94	105	101	97	93	97	93	90	93	90	87	89	87	85	82
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1121.261 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.)