



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-LO-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-LO-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	1375
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	14
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	3597	2901	2721
55	3295	2479	2289
65	3017	2070	1896
75	2511	1532	1429
85	1755	969	986

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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	509.039	509.039	509.039	509.039	509.039	509.039	509.039	509.039	509.039	509.039
5	504.798	504.983	504.702	504.680	504.976	505.435	505.960	506.256	506.463	506.708
10	496.562	496.673	496.318	496.089	496.177	496.407	496.629	496.658	496.518	496.651
15	479.735	479.772	479.513	479.572	479.927	480.312	480.711	481.170	481.718	482.569
20	458.904	458.896	458.748	458.852	459.170	459.555	460.073	460.532	460.828	461.153
25	433.795	433.847	433.980	434.580	435.127	435.342	435.505	435.734	436.104	436.408
30	404.225	404.136	404.158	404.440	404.995	405.720	406.556	407.659	408.191	407.910
35	373.411	373.300	373.204	373.315	373.448	373.974	374.780	375.224	375.469	376.194
40	337.684	337.625	337.736	338.239	338.957	340.060	340.992	341.436	341.140	341.429
45	302.112	302.068	302.727	303.385	303.755	304.007	304.673	304.998	305.435	306.301
50	264.913	264.728	264.935	265.653	266.511	267.266	267.917	268.835	268.672	269.367
55	227.247	227.306	227.779	228.556	229.348	230.244	230.917	231.257	232.057	232.982
60	194.080	194.228	194.761	195.560	196.426	197.543	197.869	198.779	199.689	200.533
65	156.495	156.739	157.605	158.160	159.004	160.025	161.128	162.223	163.444	164.672
70	119.125	119.614	120.102	121.064	121.959	123.306	124.779	126.288	127.828	129.359
75	83.339	83.650	84.464	85.389	86.809	88.541	90.465	92.396	94.217	96.030
80	50.202	50.616	51.622	53.132	55.056	57.320	59.711	62.027	64.410	66.704
85	23.687	24.154	25.330	27.047	29.311	31.864	34.602	37.289	39.938	42.580
90	9.531	10.464	11.862	13.298	16.095	18.470	20.809	23.998	28.342	33.907

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	509.039	509.039	509.039	509.039	509.039	509.039	509.039	509.039	509.039
5	507.166	507.277	507.026	506.478	505.849	505.546	505.479	505.827	505.960
10	496.947	497.147	497.169	496.917	496.829	496.666	496.237	496.274	496.496
15	482.591	482.310	482.029	481.733	481.392	481.607	481.807	481.459	481.503
20	461.656	462.670	462.752	461.997	461.338	461.205	461.582	461.612	461.013
25	436.689	436.948	437.222	437.451	436.874	436.341	436.452	436.733	436.023
30	407.866	408.029	408.080	408.376	408.325	407.755	407.562	407.740	407.629
35	376.468	376.201	376.172	376.223	376.564	376.408	375.831	376.016	376.075
40	341.865	342.087	342.235	342.124	342.220	342.043	342.035	342.287	342.864
45	306.034	306.404	306.641	306.789	306.708	307.070	307.026	307.026	307.714
50	269.826	270.085	270.707	270.707	270.566	271.151	271.284	270.855	271.254
55	233.463	234.025	234.380	234.610	234.602	234.950	235.253	234.920	235.061
60	201.502	202.205	202.649	202.886	203.174	203.552	203.796	203.574	203.729
65	165.767	166.655	167.284	167.913	168.468	168.972	169.046	168.949	169.134
70	130.654	131.779	132.889	133.888	134.636	135.109	135.242	135.383	135.531
75	97.784	99.360	100.751	101.957	102.919	103.541	103.866	104.111	104.259
80	68.827	70.670	72.328	73.741	74.784	75.517	75.983	76.279	76.383
85	45.029	47.182	49.084	50.683	51.911	52.799	53.406	53.702	53.761
90	38.613	40.293	39.686	38.917	38.635	38.635	38.732	38.746	38.695

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	183.62	N.A.	13.40
0-30	384.31	N.A.	28.00
0-40	618.93	N.A.	45.00
0-60	1063.32	N.A.	77.30
0-80	1326.96	N.A.	96.50
0-90	1374.73	N.A.	100.00
10-90	1326.73	N.A.	96.50
20-40	435.31	N.A.	31.70
20-50	670.95	N.A.	48.80
40-70	606.79	N.A.	44.10
60-80	263.64	N.A.	19.20
70-80	101.24	N.A.	7.40
80-90	47.77	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	1374.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.00
10-20	135.62
20-30	200.69
30-40	234.63
40-50	235.64
50-60	208.75
60-70	162.41
70-80	101.24
80-90	47.77
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

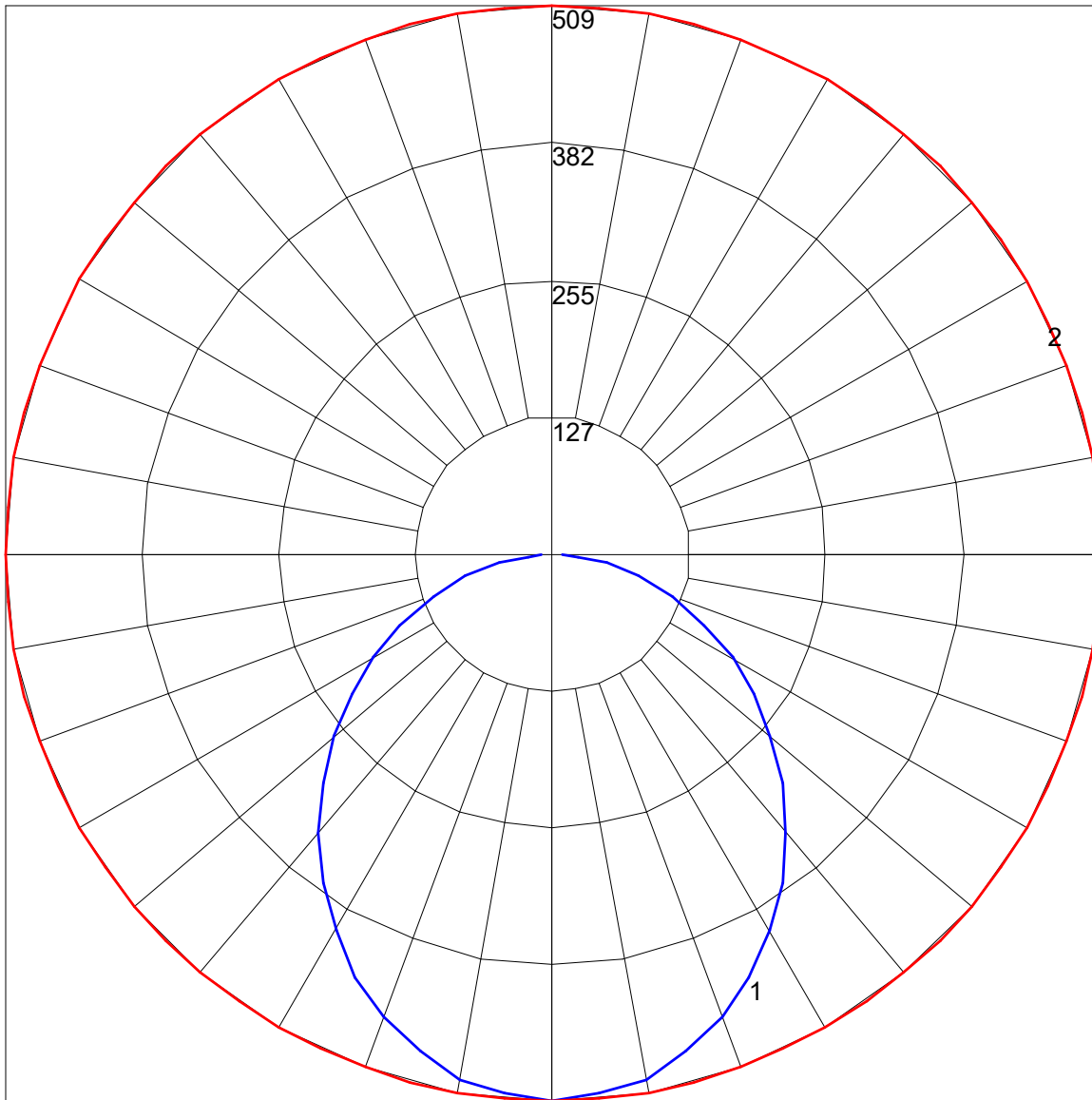
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	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 = 509.039 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.)