



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-MO-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-MO-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	1858
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	18.4
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	4861	3920	3677
55	4452	3350	3093
65	4077	2797	2563
75	3394	2070	1931
85	2372	1310	1333

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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	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89
5	682.16	682.41	682.03	682.00	682.40	683.02	683.73	684.13	684.41	684.74
10	671.03	671.18	670.70	670.39	670.51	670.82	671.12	671.16	670.97	671.15
15	648.29	648.34	647.99	648.07	648.55	649.07	649.61	650.23	650.97	652.12
20	620.14	620.13	619.93	620.07	620.50	621.02	621.72	622.34	622.74	623.18
25	586.21	586.28	586.46	587.27	588.01	588.30	588.52	588.83	589.33	589.74
30	546.25	546.13	546.16	546.54	547.29	548.27	549.40	550.89	551.61	551.23
35	504.61	504.46	504.33	504.48	504.66	505.37	506.46	507.06	507.39	508.37
40	456.33	456.25	456.40	457.08	458.05	459.54	460.80	461.40	461.00	461.39
45	408.26	408.20	409.09	409.98	410.48	410.82	411.72	412.16	412.75	413.92
50	357.99	357.74	358.02	358.99	360.15	361.17	362.05	363.29	363.07	364.01
55	307.09	307.17	307.81	308.86	309.93	311.14	312.05	312.51	313.59	314.84
60	262.27	262.47	263.19	264.27	265.44	266.95	267.39	268.62	269.85	270.99
65	211.48	211.81	212.98	213.73	214.87	216.25	217.74	219.22	220.87	222.53
70	160.98	161.64	162.30	163.60	164.81	166.63	168.62	170.66	172.74	174.81
75	112.62	113.04	114.14	115.39	117.31	119.65	122.25	124.86	127.32	129.77
80	67.84	68.40	69.76	71.80	74.40	77.46	80.69	83.82	87.04	90.14
85	32.01	32.64	34.23	36.55	39.61	43.06	46.76	50.39	53.97	57.54
90	12.88	14.14	16.03	17.97	21.75	24.96	28.12	32.43	38.30	45.82

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	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89
5	685.36	685.51	685.17	684.43	683.58	683.17	683.08	683.55	683.73
10	671.55	671.82	671.85	671.51	671.39	671.17	670.59	670.64	670.94
15	652.15	651.77	651.39	650.99	650.53	650.82	651.09	650.62	650.68
20	623.86	625.23	625.34	624.32	623.43	623.25	623.76	623.80	622.99
25	590.12	590.47	590.84	591.15	590.37	589.65	589.80	590.18	589.22
30	551.17	551.39	551.46	551.86	551.79	551.02	550.76	551.00	550.85
35	508.74	508.38	508.34	508.41	508.87	508.66	507.88	508.13	508.21
40	461.98	462.28	462.48	462.33	462.46	462.22	462.21	462.55	463.33
45	413.56	414.06	414.38	414.58	414.47	414.96	414.90	414.90	415.83
50	364.63	364.98	365.82	365.82	365.63	366.42	366.60	366.02	366.56
55	315.49	316.25	316.73	317.04	317.03	317.50	317.91	317.46	317.65
60	272.30	273.25	273.85	274.17	274.56	275.07	275.40	275.10	275.31
65	224.01	225.21	226.06	226.91	227.66	228.34	228.44	228.31	228.56
70	176.56	178.08	179.58	180.93	181.94	182.58	182.76	182.95	183.15
75	132.14	134.27	136.15	137.78	139.08	139.92	140.36	140.69	140.89
80	93.01	95.50	97.74	99.65	101.06	102.05	102.68	103.08	103.22
85	60.85	63.76	66.33	68.49	70.15	71.35	72.17	72.57	72.65
90	52.18	54.45	53.63	52.59	52.21	52.21	52.34	52.36	52.29

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	248.13	N.A.	13.40
0-30	519.33	N.A.	28.00
0-40	836.39	N.A.	45.00
0-60	1436.91	N.A.	77.30
0-80	1793.19	N.A.	96.50
0-90	1857.74	N.A.	100.00
10-90	1792.88	N.A.	96.50
20-40	588.26	N.A.	31.70
20-50	906.69	N.A.	48.80
40-70	819.99	N.A.	44.10
60-80	356.28	N.A.	19.20
70-80	136.81	N.A.	7.40
80-90	64.55	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	1857.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.86
10-20	183.27
20-30	271.20
30-40	317.06
40-50	318.43
50-60	282.09
60-70	219.47
70-80	136.81
80-90	64.55
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

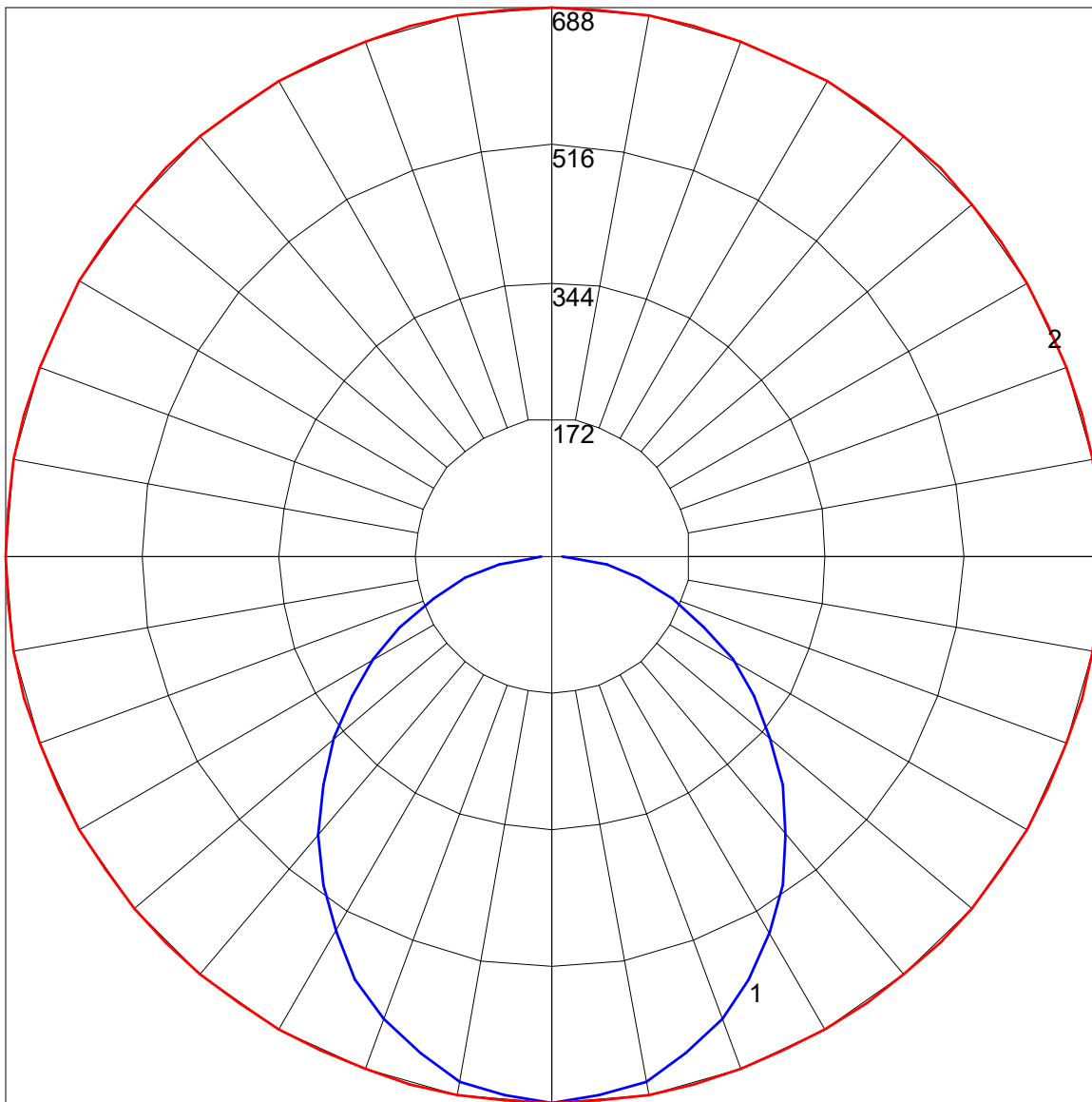
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 687.89 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.)