



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-MO-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-MO-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	2072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	18.4
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>
<b>0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	22.30	26.37	37.13	47.49	52.58	57.49	69.58	97.31	136.77	246.77
<b>100</b>	41.60	45.12	53.21	64.91	81.23	98.86	116.67	132.11	150.84	227.07
<b>105</b>	65.64	69.02	76.84	86.33	95.21	109.39	128.25	148.76	200.58	267.03
<b>110</b>	90.79	94.47	103.07	114.08	124.44	132.63	145.50	163.19	192.48	243.35
<b>115</b>	119.09	122.55	131.52	143.91	157.14	168.58	177.84	191.85	219.59	257.64
<b>120</b>	148.97	152.32	161.20	172.47	189.32	202.07	217.37	232.52	255.06	288.04
<b>125</b>	176.31	179.40	187.68	199.07	216.43	232.78	248.25	264.42	285.67	315.87
<b>130</b>	205.81	207.84	215.55	228.04	244.00	261.39	277.99	295.00	314.77	341.01
<b>135</b>	231.21	233.12	240.16	251.67	266.80	284.07	301.94	318.77	336.99	359.05
<b>140</b>	253.25	254.97	260.95	270.98	284.85	301.10	318.41	334.87	352.08	370.45
<b>145</b>	274.61	275.95	280.66	288.73	300.25	314.14	329.56	345.00	360.65	375.95
<b>150</b>	296.64	297.53	300.92	306.65	315.51	326.10	338.66	351.34	364.31	377.67
<b>155</b>	317.60	317.90	319.99	324.13	330.30	337.71	347.08	356.67	366.88	377.31
<b>160</b>	335.59	336.13	337.60	339.81	344.17	349.23	355.21	361.61	368.07	375.87
<b>165</b>	350.97	351.35	352.35	353.38	356.25	359.01	362.57	366.66	369.65	374.09
<b>170</b>	362.42	362.71	363.30	363.52	365.07	366.25	368.23	369.74	371.51	373.28
<b>175</b>	369.60	369.35	369.40	369.19	370.53	370.86	371.84	372.54	372.76	373.56
<b>180</b>	372.97	372.97	372.97	372.97	372.97	372.97	372.97	372.97	372.97	372.97

**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>
<b>0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>25</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>35</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>45</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95</b>	341.83	380.97	354.22	298.06	244.27	212.72	191.16	179.38	176.02
<b>100</b>	346.22	509.29	657.24	732.94	733.29	700.85	663.24	637.49	628.73
<b>105</b>	335.87	414.23	514.79	623.34	714.01	779.71	817.54	835.92	840.93
<b>110</b>	304.34	376.16	455.15	534.17	603.95	659.31	699.73	722.56	730.71
<b>115</b>	308.24	368.05	432.91	496.80	553.73	596.63	627.80	645.88	652.60
<b>120</b>	331.88	383.16	437.88	490.60	537.07	572.76	598.85	613.43	620.06
<b>125</b>	354.84	399.51	446.62	492.52	532.14	564.33	587.33	599.32	604.65
<b>130</b>	374.42	412.99	453.61	492.51	526.07	553.80	572.72	584.72	588.75
<b>135</b>	386.27	417.32	450.44	483.29	512.35	535.68	553.26	563.48	567.11
<b>140</b>	391.05	414.46	439.63	464.76	487.65	506.87	520.41	530.23	534.00
<b>145</b>	391.85	408.60	426.06	443.53	459.23	472.91	482.80	489.92	491.87
<b>150</b>	390.32	402.93	414.03	425.49	435.14	443.58	449.94	453.22	454.74
<b>155</b>	387.03	396.46	404.20	411.98	418.01	423.48	427.14	429.48	429.44
<b>160</b>	382.30	388.97	394.98	400.10	403.89	407.98	410.09	411.98	412.83
<b>165</b>	378.08	382.01	385.42	388.47	390.91	393.22	394.04	395.89	396.70
<b>170</b>	374.98	376.84	378.14	379.38	380.18	381.13	381.70	382.82	383.19
<b>175</b>	374.19	374.45	374.21	374.47	374.35	374.74	374.72	375.22	376.16
<b>180</b>	372.97	372.97	372.97	372.97	372.97	372.97	372.97	372.97	372.97

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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	565.76	N.A.	27.30
90-120	900.35	N.A.	43.40
90-130	1223.72	N.A.	59.00
90-150	1757.26	N.A.	84.80
90-180	2072.46	N.A.	100.00
110-180	1506.7	N.A.	72.70
0-180	2072.46	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	188.03
100-110	377.73
110-120	334.59
120-130	323.37
130-140	295.07
140-150	238.48
150-160	173.65
160-170	105.96
170-180	35.59

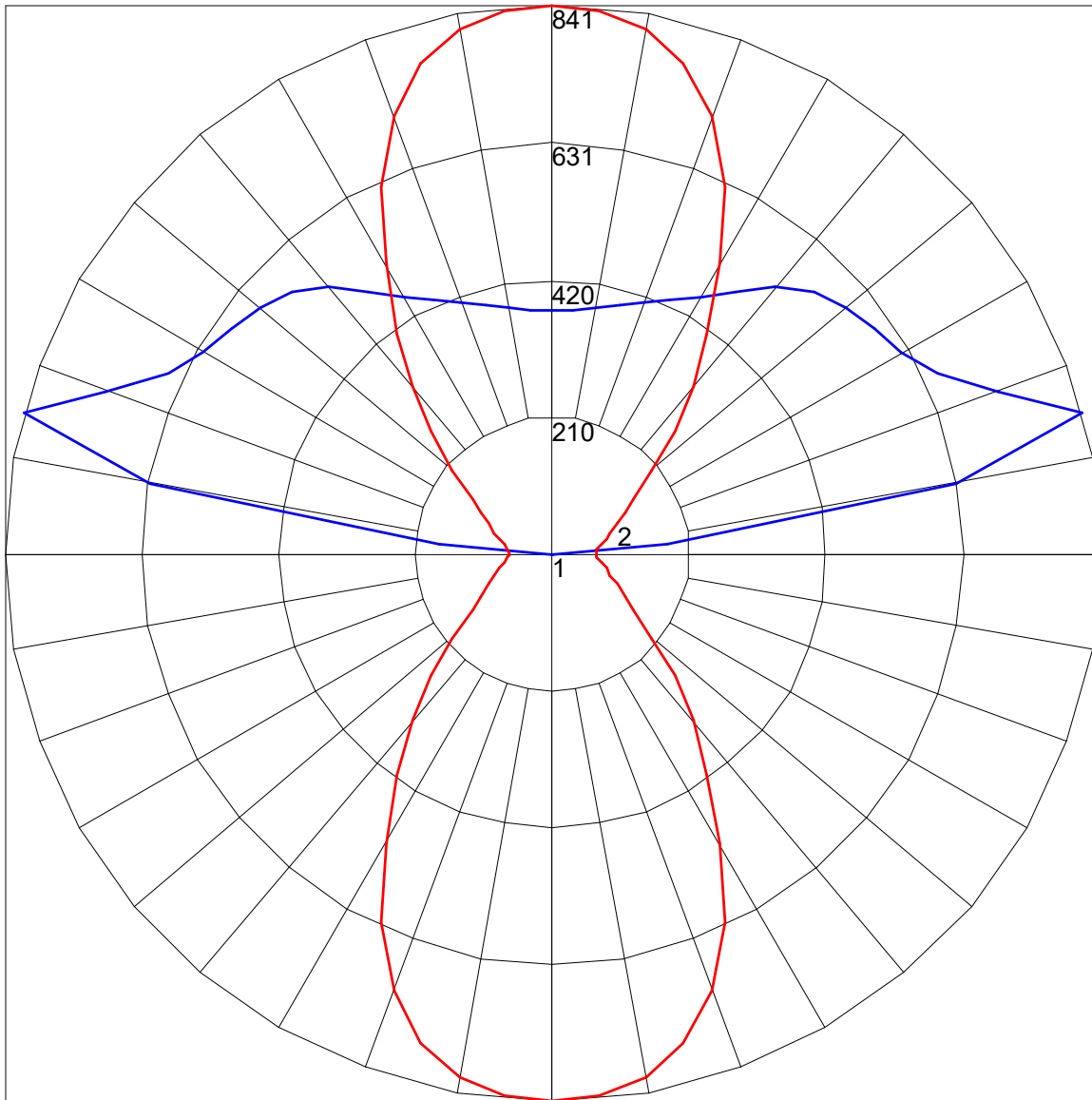
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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 = 840.93 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.)