



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-MO-MO-04-D3.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021502301  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 2/16/2015  
 [MANUFACT] PRUDENTIAL LTG.  
 [LUMCAT] Wave2-LED4-MO-MO-04-D3  
 [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  
 [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	3941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.23 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4735	3243	2928
55	4291	2634	2332
65	3863	2064	1810
75	3107	1398	1253
85	1922	767	763

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89
<b>5</b>	682.16	682.41	682.03	682.00	682.40	683.02	683.73	684.13	684.41	684.74
<b>10</b>	671.03	671.18	670.70	670.39	670.51	670.82	671.12	671.16	670.97	671.15
<b>15</b>	648.29	648.34	647.99	648.07	648.55	649.07	649.61	650.23	650.97	652.12
<b>20</b>	620.14	620.13	619.93	620.07	620.50	621.02	621.72	622.34	622.74	623.18
<b>25</b>	586.21	586.28	586.46	587.27	588.01	588.30	588.52	588.83	589.33	589.74
<b>30</b>	546.25	546.13	546.16	546.54	547.29	548.27	549.40	550.89	551.61	551.23
<b>35</b>	504.61	504.46	504.33	504.48	504.66	505.37	506.46	507.06	507.39	508.37
<b>40</b>	456.33	456.25	456.40	457.08	458.05	459.54	460.80	461.40	461.00	461.39
<b>45</b>	408.26	408.20	409.09	409.98	410.48	410.82	411.72	412.16	412.75	413.92
<b>50</b>	357.99	357.74	358.02	358.99	360.15	361.17	362.05	363.29	363.07	364.01
<b>55</b>	307.09	307.17	307.81	308.86	309.93	311.14	312.05	312.51	313.59	314.84
<b>60</b>	262.27	262.47	263.19	264.27	265.44	266.95	267.39	268.62	269.85	270.99
<b>65</b>	211.48	211.81	212.98	213.73	214.87	216.25	217.74	219.22	220.87	222.53
<b>70</b>	160.98	161.64	162.30	163.60	164.81	166.63	168.62	170.66	172.74	174.81
<b>75</b>	112.62	113.04	114.14	115.39	117.31	119.65	122.25	124.86	127.32	129.77
<b>80</b>	67.84	68.40	69.76	71.80	74.40	77.46	80.69	83.82	87.04	90.14
<b>85</b>	32.01	32.64	34.23	36.55	39.61	43.06	46.76	50.39	53.97	57.54
<b>90</b>	12.88	14.14	16.03	17.97	21.75	24.96	28.12	32.43	38.30	45.82
<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**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89	687.89
<b>5</b>	685.36	685.51	685.17	684.43	683.58	683.17	683.08	683.55	683.73
<b>10</b>	671.55	671.82	671.85	671.51	671.39	671.17	670.59	670.64	670.94
<b>15</b>	652.15	651.77	651.39	650.99	650.53	650.82	651.09	650.62	650.68
<b>20</b>	623.86	625.23	625.34	624.32	623.43	623.25	623.76	623.80	622.99
<b>25</b>	590.12	590.47	590.84	591.15	590.37	589.65	589.80	590.18	589.22
<b>30</b>	551.17	551.39	551.46	551.86	551.79	551.02	550.76	551.00	550.85
<b>35</b>	508.74	508.38	508.34	508.41	508.87	508.66	507.88	508.13	508.21
<b>40</b>	461.98	462.28	462.48	462.33	462.46	462.22	462.21	462.55	463.33
<b>45</b>	413.56	414.06	414.38	414.58	414.47	414.96	414.90	414.90	415.83
<b>50</b>	364.63	364.98	365.82	365.82	365.63	366.42	366.60	366.02	366.56
<b>55</b>	315.49	316.25	316.73	317.04	317.03	317.50	317.91	317.46	317.65
<b>60</b>	272.30	273.25	273.85	274.17	274.56	275.07	275.40	275.10	275.31

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	224.01	225.21	226.06	226.91	227.66	228.34	228.44	228.31	228.56
<b>70</b>	176.56	178.08	179.58	180.93	181.94	182.58	182.76	182.95	183.15
<b>75</b>	132.14	134.27	136.15	137.78	139.08	139.92	140.36	140.69	140.89
<b>80</b>	93.01	95.50	97.74	99.65	101.06	102.05	102.68	103.08	103.22
<b>85</b>	60.85	63.76	66.33	68.49	70.15	71.35	72.17	72.57	72.65
<b>90</b>	52.18	54.45	53.63	52.59	52.21	52.21	52.34	52.36	52.29
<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	248.13	N.A.	6.30
0-30	519.33	N.A.	13.20
0-40	836.39	N.A.	21.20
0-60	1436.91	N.A.	36.50
0-80	1793.19	N.A.	45.50
0-90	1857.74	N.A.	47.10
10-90	1792.88	N.A.	45.50
20-40	588.26	N.A.	14.90
20-50	906.69	N.A.	23.00
40-70	819.99	N.A.	20.80
60-80	356.28	N.A.	9.00
70-80	136.81	N.A.	3.50
80-90	64.55	N.A.	1.60
90-110	576.32	N.A.	14.60
90-120	910.91	N.A.	23.10
90-130	1234.28	N.A.	31.30
90-150	1767.82	N.A.	44.90
90-180	2083.02	N.A.	52.90
110-180	1506.7	N.A.	38.20
0-180	3940.76	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	198.59
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

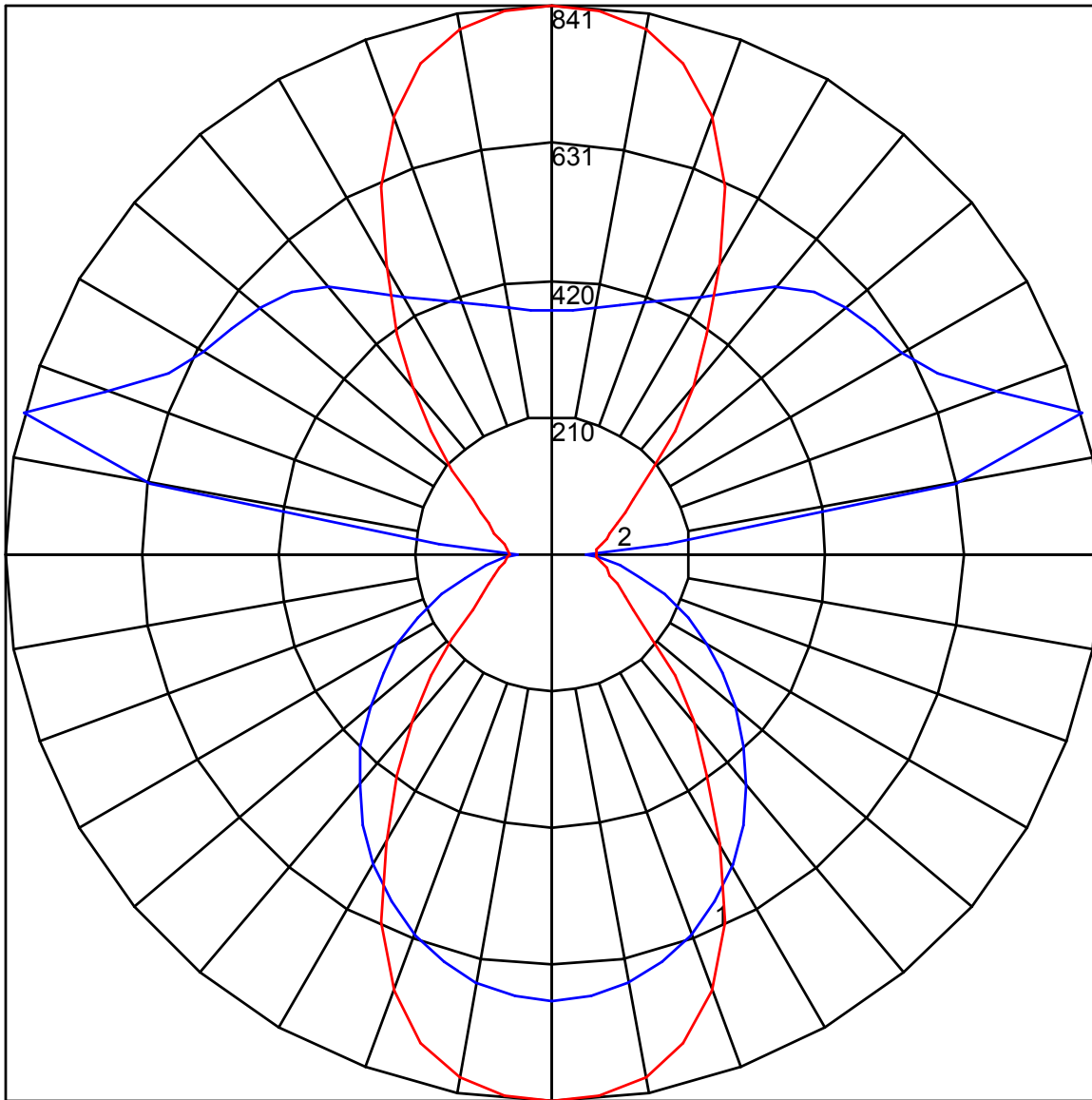
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	92	88	85	89	85	81	78	71	69	66	58	57	55	47	45	44	39
2	88	80	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	57	73	65	59	53	55	50	46	45	41	38	36	34	31	27
4	73	62	54	48	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	24	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	30	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	30	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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.)