



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WAVE2-LED4-HO-HO-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-HO-HO-04-D3  
 [LUMINAIRE] 48-1/4"L. X 9"W. X 2-3/4"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] I  
 [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	6463
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	68
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	7765	5319	4802
55	7037	4320	3824
65	6336	3385	2969
75	5095	2293	2054
85	3152	1258	1251

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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>	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140
<b>5</b>	1118.742	1119.152	1118.529	1118.480	1119.136	1120.153	1121.317	1121.973	1122.432	1122.974
<b>10</b>	1100.489	1100.735	1099.948	1099.440	1099.636	1100.145	1100.637	1100.702	1100.391	1100.686
<b>15</b>	1063.196	1063.278	1062.704	1062.835	1063.622	1064.475	1065.360	1066.377	1067.591	1069.477
<b>20</b>	1017.030	1017.013	1016.685	1016.915	1017.620	1018.473	1019.621	1020.638	1021.294	1022.015
<b>25</b>	961.384	961.499	961.794	963.123	964.336	964.812	965.173	965.681	966.501	967.174
<b>30</b>	895.850	895.653	895.702	896.326	897.556	899.163	901.016	903.460	904.640	904.017
<b>35</b>	827.560	827.314	827.101	827.347	827.642	828.807	830.594	831.578	832.120	833.727
<b>40</b>	748.381	748.250	748.496	749.611	751.202	753.646	755.712	756.696	756.040	756.680
<b>45</b>	669.546	669.448	670.908	672.367	673.187	673.745	675.221	675.942	676.910	678.829
<b>50</b>	587.104	586.694	587.153	588.744	590.646	592.319	593.762	595.796	595.435	596.976
<b>55</b>	503.628	503.759	504.808	506.530	508.285	510.270	511.762	512.516	514.288	516.338
<b>60</b>	430.123	430.451	431.632	433.403	435.322	437.798	438.520	440.537	442.554	444.424
<b>65</b>	346.827	347.368	349.287	350.517	352.387	354.650	357.094	359.521	362.227	364.949
<b>70</b>	264.007	265.090	266.172	268.304	270.288	273.273	276.537	279.882	283.294	286.688
<b>75</b>	184.697	185.386	187.190	189.240	192.388	196.226	200.490	204.770	208.805	212.823
<b>80</b>	111.258	112.176	114.406	117.752	122.016	127.034	132.332	137.465	142.746	147.830
<b>85</b>	52.496	53.530	56.137	59.942	64.960	70.618	76.686	82.640	88.511	94.366
<b>90</b>	21.123	23.190	26.289	29.471	35.670	40.934	46.117	53.185	62.812	75.145
<b>95</b>	36.572	43.247	60.893	77.884	86.231	94.284	114.111	159.588	224.303	404.703
<b>100</b>	68.224	73.997	87.264	106.452	133.217	162.130	191.339	216.660	247.378	372.395
<b>105</b>	107.650	113.193	126.018	141.581	156.144	179.400	210.330	243.966	328.951	437.929
<b>110</b>	148.896	154.931	169.035	187.091	204.082	217.513	238.620	267.632	315.667	399.094
<b>115</b>	195.308	200.982	215.693	236.012	257.710	276.471	291.658	314.634	360.128	422.530
<b>120</b>	244.311	249.805	264.368	282.851	310.485	331.395	356.487	381.333	418.298	472.386
<b>125</b>	289.148	294.216	307.795	326.475	354.945	381.759	407.130	433.649	468.499	518.027
<b>130</b>	337.528	340.858	353.502	373.986	400.160	428.680	455.904	483.800	516.223	559.256
<b>135</b>	379.184	382.317	393.862	412.739	437.552	465.875	495.182	522.783	552.664	588.842
<b>140</b>	415.330	418.151	427.958	444.407	467.154	493.804	522.192	549.187	577.411	607.538
<b>145</b>	450.360	452.558	460.282	473.517	492.410	515.190	540.478	565.800	591.466	616.558
<b>150</b>	486.490	487.949	493.509	502.906	517.436	534.804	555.402	576.198	597.468	619.379
<b>155</b>	520.864	521.356	524.784	531.573	541.692	553.844	569.211	584.939	601.683	618.788
<b>160</b>	550.368	551.253	553.664	557.288	564.439	572.737	582.544	593.040	603.635	616.427
<b>165</b>	575.591	576.214	577.854	579.543	584.250	588.776	594.615	601.322	606.226	613.508
<b>170</b>	594.369	594.844	595.812	596.173	598.715	600.650	603.897	606.374	609.276	612.179
<b>175</b>	606.144	605.734	605.816	605.472	607.669	608.210	609.818	610.966	611.326	612.638
<b>180</b>	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671

**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>	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140	1128.140
<b>5</b>	1123.990	1124.236	1123.679	1122.465	1121.071	1120.399	1120.251	1121.022	1121.317
<b>10</b>	1101.342	1101.785	1101.834	1101.276	1101.080	1100.719	1099.768	1099.850	1100.342
<b>15</b>	1069.526	1068.903	1068.280	1067.624	1066.869	1067.345	1067.788	1067.017	1067.115
<b>20</b>	1023.130	1025.377	1025.558	1023.885	1022.425	1022.130	1022.966	1023.032	1021.704
<b>25</b>	967.797	968.371	968.978	969.486	968.207	967.026	967.272	967.895	966.321
<b>30</b>	903.919	904.280	904.394	905.050	904.936	903.673	903.246	903.640	903.394
<b>35</b>	834.334	833.743	833.678	833.792	834.547	834.202	832.923	833.333	833.464
<b>40</b>	757.647	758.139	758.467	758.221	758.434	758.041	758.024	758.582	759.861
<b>45</b>	678.238	679.058	679.583	679.911	679.731	680.534	680.436	680.436	681.961
<b>50</b>	597.993	598.567	599.945	599.945	599.633	600.929	601.224	600.273	601.158
<b>55</b>	517.404	518.650	519.437	519.946	519.929	520.700	521.372	520.634	520.946
<b>60</b>	446.572	448.130	449.114	449.639	450.278	451.115	451.656	451.164	451.508

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	367.376	369.344	370.738	372.132	373.362	374.478	374.642	374.428	374.838
<b>70</b>	289.558	292.051	294.511	296.725	298.382	299.431	299.726	300.038	300.366
<b>75</b>	216.710	220.203	223.286	225.959	228.091	229.469	230.190	230.732	231.060
<b>80</b>	152.536	156.620	160.294	163.426	165.738	167.362	168.395	169.051	169.281
<b>85</b>	99.794	104.566	108.781	112.324	115.046	117.014	118.359	119.015	119.146
<b>90</b>	85.575	89.298	87.953	86.248	85.624	85.624	85.838	85.870	85.756
<b>95</b>	560.601	624.791	580.921	488.818	400.603	348.861	313.502	294.183	288.673
<b>100</b>	567.801	835.236	1077.874	1202.022	1202.596	1149.394	1087.714	1045.484	1031.117
<b>105</b>	550.827	679.337	844.256	1022.278	1170.976	1278.724	1340.766	1370.909	1379.125
<b>110</b>	499.118	616.902	746.446	876.039	990.478	1081.268	1147.557	1184.998	1198.364
<b>115</b>	505.514	603.602	709.972	814.752	908.117	978.473	1029.592	1059.243	1070.264
<b>120</b>	544.283	628.382	718.123	804.584	880.795	939.326	982.114	1006.025	1016.898
<b>125</b>	581.938	655.196	732.457	807.733	872.710	925.501	963.221	982.885	991.626
<b>130</b>	614.049	677.304	743.920	807.716	862.755	908.232	939.261	958.941	965.550
<b>135</b>	633.483	684.405	738.722	792.596	840.254	878.515	907.346	924.107	930.060
<b>140</b>	641.322	679.714	720.993	762.206	799.746	831.267	853.472	869.577	875.760
<b>145</b>	642.634	670.104	698.738	727.389	753.137	775.572	791.792	803.469	806.667
<b>150</b>	640.125	660.805	679.009	697.804	713.630	727.471	737.902	743.281	745.774
<b>155</b>	634.729	650.194	662.888	675.647	685.536	694.507	700.510	704.347	704.282
<b>160</b>	626.972	637.911	647.767	656.164	662.380	669.087	672.548	675.647	677.041
<b>165</b>	620.051	626.496	632.089	637.091	641.092	644.881	646.226	649.260	650.588
<b>170</b>	614.967	618.018	620.150	622.183	623.495	625.053	625.988	627.825	628.432
<b>175</b>	613.672	614.098	613.704	614.131	613.934	614.574	614.541	615.361	616.902
<b>180</b>	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671	611.671

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	406.94	N.A.	6.30
0-30	851.71	N.A.	13.20
0-40	1371.69	N.A.	21.20
0-60	2356.54	N.A.	36.50
0-80	2940.83	N.A.	45.50
0-90	3046.7	N.A.	47.10
10-90	2940.33	N.A.	45.50
20-40	964.75	N.A.	14.90
20-50	1486.97	N.A.	23.00
40-70	1344.78	N.A.	20.80
60-80	584.29	N.A.	9.00
70-80	224.36	N.A.	3.50
80-90	105.87	N.A.	1.60
90-110	945.16	N.A.	14.60
90-120	1493.9	N.A.	23.10
90-130	2024.22	N.A.	31.30
90-150	2899.23	N.A.	44.90
90-180	3416.15	N.A.	52.90
110-180	2470.99	N.A.	38.20
0-180	6462.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	106.37
10-20	300.57
20-30	444.77
30-40	519.98
40-50	522.22
50-60	462.63
60-70	359.93
70-80	224.36
80-90	105.87
90-100	325.69
100-110	619.48
110-120	548.73
120-130	530.32
130-140	483.91
140-150	391.10
150-160	284.79
160-170	173.77
170-180	58.36

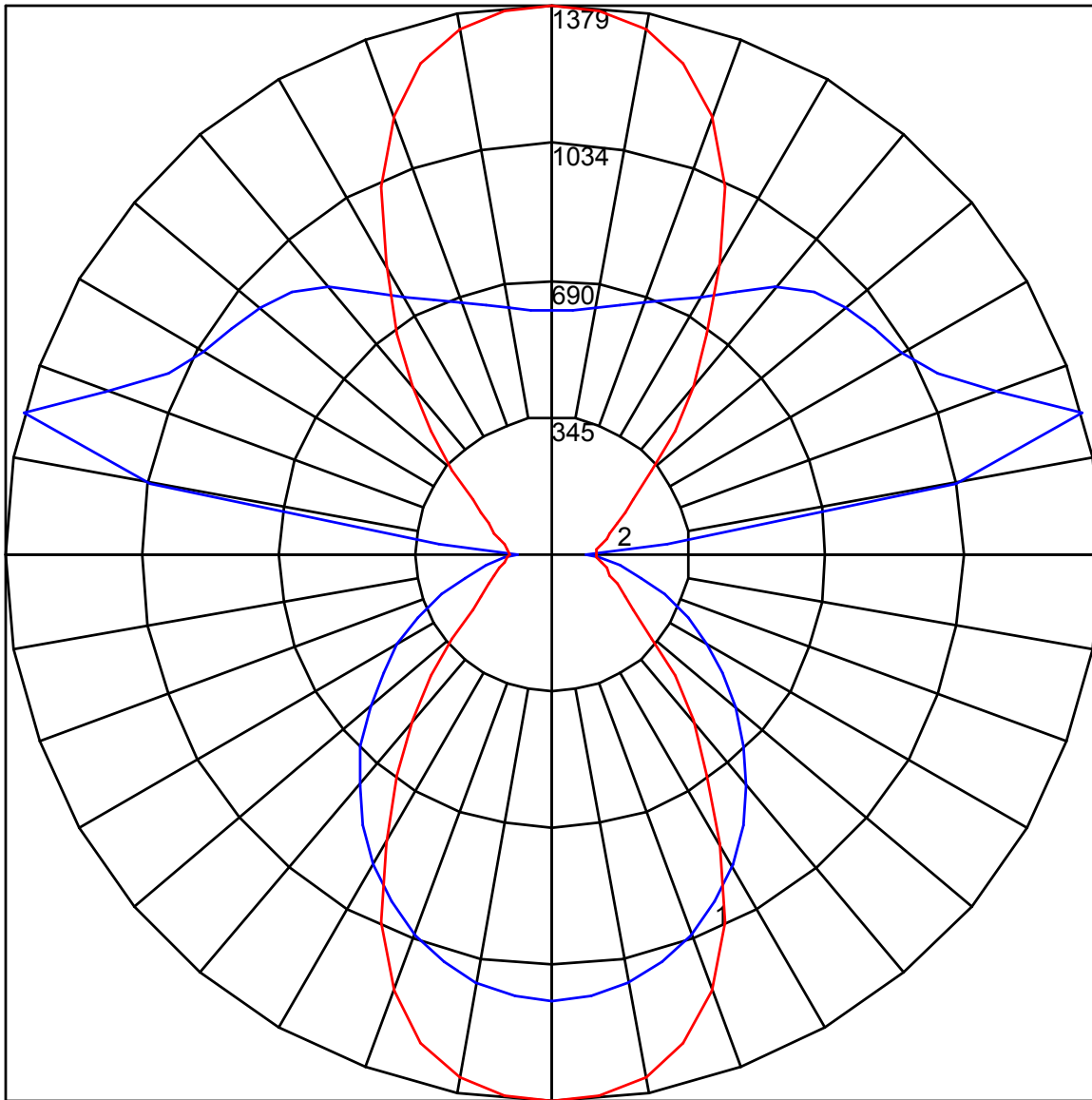
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1379.125 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.)