



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P8644-LED35-SO.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] P8644-LED35-SO  
 [TESTLAB] Intertek  
 [ISSUE DATE]  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9972
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8848	8776	8751
55	8535	8422	8458
65	8135	7961	7989
75	7601	7338	7235
85	7108	6414	6178

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288
2.5	3465.308	3467.552	3460.644	3466.232	3463.636	3465.220	3460.820	3463.636	3461.348	3463.636
5.0	3452.636	3451.096	3455.056	3451.448	3453.912	3451.668	3450.656	3453.296	3448.192	3453.296
7.5	3432.176	3436.224	3433.936	3434.244	3433.496	3431.428	3429.404	3429.668	3425.972	3429.668
10.0	3403.620	3404.060	3403.532	3400.892	3404.940	3403.708	3401.596	3400.980	3387.956	3400.980
12.5	3372.204	3372.380	3364.944	3369.784	3368.200	3367.408	3363.008	3365.120	3357.376	3365.120
15.0	3330.448	3326.620	3319.932	3324.816	3324.772	3325.696	3322.088	3320.504	3306.996	3320.504
17.5	3280.596	3274.700	3268.936	3273.292	3275.184	3275.624	3269.508	3267.396	3256.220	3267.396
20.0	3226.212	3218.556	3219.216	3215.476	3216.048	3211.384	3213.100	3207.116	3193.168	3207.116
22.5	3159.640	3155.372	3153.876	3152.996	3152.600	3152.996	3145.164	3146.660	3127.388	3146.660
25.0	3091.264	3082.772	3082.992	3086.204	3085.632	3079.824	3078.284	3071.420	3058.616	3071.420
27.5	3019.192	2999.832	3004.804	3007.356	3005.420	3003.396	2997.852	2991.340	2972.640	2991.340
30.0	2929.828	2920.940	2916.804	2924.064	2919.796	2920.588	2912.624	2907.212	2887.720	2907.212
32.5	2843.808	2830.784	2830.168	2830.124	2830.036	2825.284	2819.476	2818.156	2798.180	2818.156
35.0	2755.852	2734.028	2733.808	2738.516	2736.580	2731.080	2723.072	2720.960	2696.672	2720.960
37.5	2649.064	2635.468	2634.324	2635.160	2631.552	2626.448	2623.412	2621.828	2593.844	2621.828
40.0	2542.716	2531.848	2529.032	2531.056	2524.060	2526.480	2519.088	2512.796	2489.300	2512.796
42.5	2436.148	2419.472	2418.636	2422.332	2412.784	2415.028	2407.196	2401.960	2379.036	2401.960
45.0	2327.248	2301.068	2308.196	2304.852	2301.640	2294.952	2293.192	2283.380	2261.424	2283.380
47.5	2207.832	2174.172	2182.136	2184.820	2180.816	2174.788	2172.148	2163.304	2134.528	2163.304
50.0	2079.660	2061.620	2055.592	2058.056	2051.192	2050.312	2040.984	2039.576	2015.728	2039.576
52.5	1947.748	1928.036	1931.644	1929.400	1930.544	1921.436	1917.784	1911.008	1885.356	1911.008
55.0	1820.984	1795.596	1796.740	1801.184	1804.396	1794.144	1787.280	1778.392	1754.676	1778.392
57.5	1694.176	1664.608	1668.744	1662.892	1666.192	1663.332	1649.032	1649.164	1623.292	1649.164
60.0	1557.864	1532.036	1529.132	1527.064	1527.064	1520.816	1515.140	1509.816	1482.976	1509.816
62.5	1418.296	1393.172	1389.256	1393.568	1391.852	1388.552	1376.716	1375.528	1349.348	1375.528
65.0	1278.860	1257.608	1251.404	1247.488	1255.848	1245.288	1239.876	1236.840	1209.340	1236.840
67.5	1147.124	1115.576	1115.092	1114.124	1115.356	1112.144	1100.968	1098.196	1077.736	1098.196
70.0	1007.292	980.628	978.340	972.620	974.600	971.300	968.924	963.644	933.416	963.644
72.5	868.252	842.248	842.160	834.460	831.644	829.752	827.244	823.680	801.812	823.680
75.0	731.764	711.656	706.420	705.144	696.564	697.840	693.000	692.208	675.004	692.208
77.5	604.956	577.808	572.528	570.416	566.984	561.308	564.256	566.060	542.652	566.060
80.0	472.780	450.076	450.956	435.688	439.296	435.556	437.712	432.960	419.936	432.960
82.5	348.040	325.336	327.052	320.848	311.036	314.468	312.708	311.872	294.184	311.872
85.0	230.428	210.628	207.944	200.508	200.288	200.420	196.900	197.736	184.316	197.736
87.5	118.316	99.528	97.152	97.284	97.416	91.036	91.124	87.912	75.416	87.912
90.0	21.252	10.164	5.060	7.744	9.680	10.032	5.236	6.952	3.784	6.952
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288	3467.288
2.5	3460.820	3465.220	3463.636	3466.232	3460.644	3467.552	3465.308
5.0	3450.656	3451.668	3453.912	3451.448	3455.056	3451.096	3452.636
7.5	3429.404	3431.428	3433.496	3434.244	3433.936	3436.224	3432.176
10.0	3401.596	3403.708	3404.940	3400.892	3403.532	3404.060	3403.620
12.5	3363.008	3367.408	3368.200	3369.784	3364.944	3372.380	3372.204
15.0	3322.088	3325.696	3324.772	3324.816	3319.932	3326.620	3330.448
17.5	3269.508	3275.624	3275.184	3273.292	3268.936	3274.700	3280.596
20.0	3213.100	3211.384	3216.048	3215.476	3219.216	3218.556	3226.212
22.5	3145.164	3152.996	3152.600	3152.996	3153.876	3155.372	3159.640
25.0	3078.284	3079.824	3085.632	3086.204	3082.992	3082.772	3091.264
27.5	2997.852	3003.396	3005.420	3007.356	3004.804	2999.832	3019.192
30.0	2912.624	2920.588	2919.796	2924.064	2916.804	2920.940	2929.828
32.5	2819.476	2825.284	2830.036	2830.124	2830.168	2830.784	2843.808
35.0	2723.072	2731.080	2736.580	2738.516	2733.808	2734.028	2755.852
37.5	2623.412	2626.448	2631.552	2635.160	2634.324	2635.468	2649.064
40.0	2519.088	2526.480	2524.060	2531.056	2529.032	2531.848	2542.716
42.5	2407.196	2415.028	2412.784	2422.332	2418.636	2419.472	2436.148
45.0	2293.192	2294.952	2301.640	2304.852	2308.196	2301.068	2327.248
47.5	2172.148	2174.788	2180.816	2184.820	2182.136	2174.172	2207.832
50.0	2040.984	2050.312	2051.192	2058.056	2055.592	2061.620	2079.660
52.5	1917.784	1921.436	1930.544	1929.400	1931.644	1928.036	1947.748
55.0	1787.280	1794.144	1804.396	1801.184	1796.740	1795.596	1820.984
57.5	1649.032	1663.332	1666.192	1662.892	1668.744	1664.608	1694.176
60.0	1515.140	1520.816	1527.064	1527.064	1529.132	1532.036	1557.864
62.5	1376.716	1388.552	1391.852	1393.568	1389.256	1393.172	1418.296
65.0	1239.876	1245.288	1255.848	1247.488	1251.404	1257.608	1278.860
67.5	1100.968	1112.144	1115.356	1114.124	1115.092	1115.576	1147.124
70.0	968.924	971.300	974.600	972.620	978.340	980.628	1007.292
72.5	827.244	829.752	831.644	834.460	842.160	842.248	868.252
75.0	693.000	697.840	696.564	705.144	706.420	711.656	731.764
77.5	564.256	561.308	566.984	570.416	572.528	577.808	604.956
80.0	437.712	435.556	439.296	435.688	450.956	450.076	472.780

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : P8644-LED35-SO.IES

CANDELA TABULATION - (Cont.)

82.5	312.708	314.468	311.036	320.848	327.052	325.336	348.040
85.0	196.900	200.420	200.288	200.508	207.944	210.628	230.428
87.5	91.124	91.036	97.416	97.284	97.152	99.528	118.316
90.0	5.236	10.032	9.680	7.744	5.060	10.164	21.252
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1265.58	N.A.	12.70
0-30	2684.45	N.A.	26.90
0-40	4392.25	N.A.	44.00
0-60	7765.52	N.A.	77.90
0-80	9741.95	N.A.	97.70
0-90	9970.59	N.A.	100.00
10-90	9642.63	N.A.	96.70
20-40	3126.67	N.A.	31.40
20-50	4897.75	N.A.	49.10
40-70	4608.56	N.A.	46.20
60-80	1976.43	N.A.	19.80
70-80	741.13	N.A.	7.40
80-90	228.63	N.A.	2.30
90-110	1.15	N.A.	0.00
90-120	1.15	N.A.	0.00
90-130	1.15	N.A.	0.00
90-150	1.15	N.A.	0.00
90-180	1.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9971.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	327.95
10-20	937.63
20-30	1418.87
30-40	1707.81
40-50	1771.08
50-60	1602.18
60-70	1235.3
70-80	741.13
80-90	228.63
90-100	1.15
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

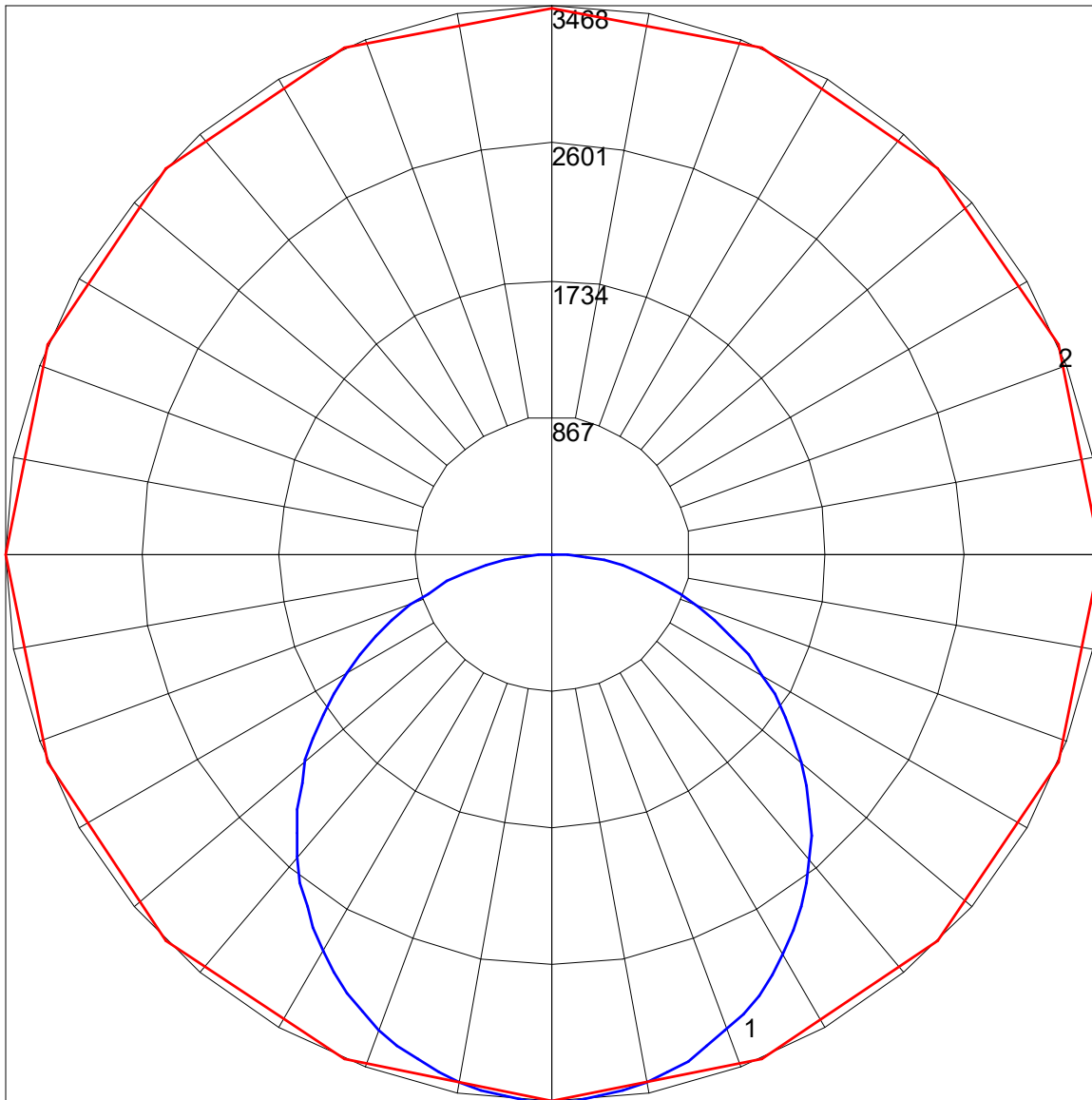
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 3467.552 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)