



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] 09/01/2015
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	106
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	7340	7280	7259
55	7080	6986	7016
65	6749	6604	6627
75	6305	6087	6002
85	5896	5321	5125

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273
2.5	2874.631	2876.492	2870.762	2875.397	2873.244	2874.558	2870.908	2873.244	2871.346	2873.244
5.0	2864.119	2862.841	2866.126	2863.133	2865.177	2863.316	2862.476	2864.666	2860.432	2864.666
7.5	2847.146	2850.504	2848.606	2848.862	2848.241	2846.526	2844.847	2845.066	2842.000	2845.066
10.0	2823.458	2823.823	2823.385	2821.195	2824.553	2823.531	2821.779	2821.268	2810.464	2821.268
12.5	2797.397	2797.543	2791.374	2795.389	2794.075	2793.418	2789.768	2791.520	2785.096	2791.520
15.0	2762.758	2759.583	2754.035	2758.086	2758.050	2758.816	2755.823	2754.509	2743.304	2754.509
17.5	2721.404	2716.513	2711.731	2715.345	2716.914	2717.279	2712.206	2710.454	2701.183	2710.454
20.0	2676.290	2669.939	2670.486	2667.384	2667.858	2663.989	2665.413	2660.449	2648.878	2660.449
22.5	2621.065	2617.525	2616.284	2615.554	2615.225	2615.554	2609.057	2610.298	2594.311	2610.298
25.0	2564.344	2557.300	2557.482	2560.147	2559.672	2554.854	2553.577	2547.883	2537.261	2547.883
27.5	2504.557	2488.497	2492.622	2494.739	2493.133	2491.454	2486.855	2481.453	2465.940	2481.453
30.0	2430.426	2423.053	2419.622	2425.644	2422.104	2422.761	2416.154	2411.665	2395.495	2411.665
32.5	2359.068	2348.264	2347.753	2347.717	2347.644	2343.702	2338.884	2337.789	2321.218	2337.789
35.0	2286.105	2268.001	2267.818	2271.724	2270.118	2265.555	2258.912	2257.160	2237.012	2257.160
37.5	2197.519	2186.241	2185.292	2185.985	2182.992	2178.758	2176.240	2174.926	2151.712	2174.926
40.0	2109.299	2100.283	2097.947	2099.626	2093.823	2095.830	2089.698	2084.479	2064.988	2084.479
42.5	2020.896	2007.062	2006.369	2009.435	2001.514	2003.376	1996.879	1992.535	1973.519	1992.535
45.0	1930.558	1908.841	1914.754	1911.980	1909.315	1903.767	1902.307	1894.168	1875.954	1894.168
47.5	1831.497	1803.575	1810.181	1812.408	1809.086	1804.086	1801.896	1794.559	1770.688	1794.559
50.0	1725.173	1710.208	1705.207	1707.251	1701.557	1700.827	1693.089	1691.921	1672.138	1691.921
52.5	1615.746	1599.394	1602.387	1600.525	1601.474	1593.919	1590.889	1585.268	1563.989	1585.268
55.0	1510.589	1489.529	1490.478	1494.164	1496.829	1488.324	1482.630	1475.257	1455.584	1475.257
57.5	1405.396	1380.868	1384.299	1379.445	1382.182	1379.810	1367.947	1368.057	1346.595	1368.057
60.0	1292.319	1270.894	1268.485	1266.769	1266.769	1261.586	1256.878	1252.461	1230.196	1252.461
62.5	1176.541	1155.700	1152.451	1156.028	1154.605	1151.867	1142.049	1141.063	1119.346	1141.063
65.0	1060.873	1043.243	1038.097	1034.848	1041.783	1033.023	1028.534	1026.015	1003.203	1026.015
67.5	951.592	925.421	925.020	924.217	925.239	922.574	913.303	911.004	894.031	911.004
70.0	835.595	813.476	811.578	806.833	808.475	805.738	803.767	799.387	774.311	799.387
72.5	720.255	698.683	698.610	692.223	689.887	688.317	686.237	683.280	665.140	683.280
75.0	607.032	590.351	586.008	584.949	577.832	578.890	574.875	574.218	559.947	574.218
77.5	501.839	479.318	474.938	473.186	470.339	465.631	468.076	469.573	450.155	469.573
80.0	392.193	373.359	374.089	361.423	364.416	361.314	363.102	359.160	348.356	359.160
82.5	288.715	269.881	271.305	266.158	258.019	260.866	259.406	258.712	244.039	258.712
85.0	191.151	174.726	172.499	166.331	166.148	166.258	163.338	164.031	152.899	164.031
87.5	98.149	82.563	80.592	80.702	80.811	75.519	75.592	72.927	62.561	72.927
90.0	17.630	8.432	4.198	6.424	8.030	8.322	4.344	5.767	3.139	5.767
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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273	2876.273
2.5	2870.908	2874.558	2873.244	2875.397	2870.762	2876.492	2874.631
5.0	2862.476	2863.316	2865.177	2863.133	2866.126	2862.841	2864.119
7.5	2844.847	2846.526	2848.241	2848.862	2848.606	2850.504	2847.146
10.0	2821.779	2823.531	2824.553	2821.195	2823.385	2823.823	2823.458
12.5	2789.768	2793.418	2794.075	2795.389	2791.374	2797.543	2797.397
15.0	2755.823	2758.816	2758.050	2758.086	2754.035	2759.583	2762.758
17.5	2712.206	2717.279	2716.914	2715.345	2711.731	2716.513	2721.404
20.0	2665.413	2663.989	2667.858	2667.384	2670.486	2669.939	2676.290
22.5	2609.057	2615.554	2615.225	2615.554	2616.284	2617.525	2621.065
25.0	2553.577	2554.854	2559.672	2560.147	2557.482	2557.300	2564.344
27.5	2486.855	2491.454	2493.133	2494.739	2492.622	2488.497	2504.557
30.0	2416.154	2422.761	2422.104	2425.644	2419.622	2423.053	2430.426
32.5	2338.884	2343.702	2347.644	2347.717	2347.753	2348.264	2359.068
35.0	2258.912	2265.555	2270.118	2271.724	2267.818	2268.001	2286.105
37.5	2176.240	2178.758	2182.992	2185.985	2185.292	2186.241	2197.519
40.0	2089.698	2095.830	2093.823	2099.626	2097.947	2100.283	2109.299
42.5	1996.879	2003.376	2001.514	2009.435	2006.369	2007.062	2020.896
45.0	1902.307	1903.767	1909.315	1911.980	1914.754	1908.841	1930.558
47.5	1801.896	1804.086	1809.086	1812.408	1810.181	1803.575	1831.497
50.0	1693.089	1700.827	1701.557	1707.251	1705.207	1710.208	1725.173
52.5	1590.889	1593.919	1601.474	1600.525	1602.387	1599.394	1615.746
55.0	1482.630	1488.324	1496.829	1494.164	1490.478	1489.529	1510.589
57.5	1367.947	1379.810	1382.182	1379.445	1384.299	1380.868	1405.396
60.0	1256.878	1261.586	1266.769	1266.769	1268.485	1270.894	1292.319
62.5	1142.049	1151.867	1154.605	1156.028	1152.451	1155.700	1176.541
65.0	1028.534	1033.023	1041.783	1034.848	1038.097	1043.243	1060.873
67.5	913.303	922.574	925.239	924.217	925.020	925.421	951.592
70.0	803.767	805.738	808.475	806.833	811.578	813.476	835.595
72.5	686.237	688.317	689.887	692.223	698.610	698.683	720.255
75.0	574.875	578.890	577.832	584.949	586.008	590.351	607.032
77.5	468.076	465.631	470.339	473.186	474.938	479.318	501.839
80.0	363.102	361.314	364.416	361.423	374.089	373.359	392.193

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CANDELA TABULATION - (Cont.)

82.5	259.406	260.866	258.019	266.158	271.305	269.881	288.715
85.0	163.338	166.258	166.148	166.331	172.499	174.726	191.151
87.5	75.592	75.519	80.811	80.702	80.592	82.563	98.149
90.0	4.344	8.322	8.030	6.424	4.198	8.432	17.630
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	1049.86	N.A.	12.70
0-30	2226.87	N.A.	26.90
0-40	3643.57	N.A.	44.00
0-60	6441.85	N.A.	77.90
0-80	8081.39	N.A.	97.70
0-90	8271.06	N.A.	100.00
10-90	7999.01	N.A.	96.70
20-40	2593.72	N.A.	31.40
20-50	4062.91	N.A.	49.10
40-70	3823.01	N.A.	46.20
60-80	1639.54	N.A.	19.80
70-80	614.81	N.A.	7.40
80-90	189.66	N.A.	2.30
90-110	0.96	N.A.	0.00
90-120	0.96	N.A.	0.00
90-130	0.96	N.A.	0.00
90-150	0.96	N.A.	0.00
90-180	0.96	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8272.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	272.05
10-20	777.80
20-30	1177.01
30-40	1416.71
40-50	1469.19
50-60	1329.09
60-70	1024.74
70-80	614.81
80-90	189.66
90-100	0.96
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

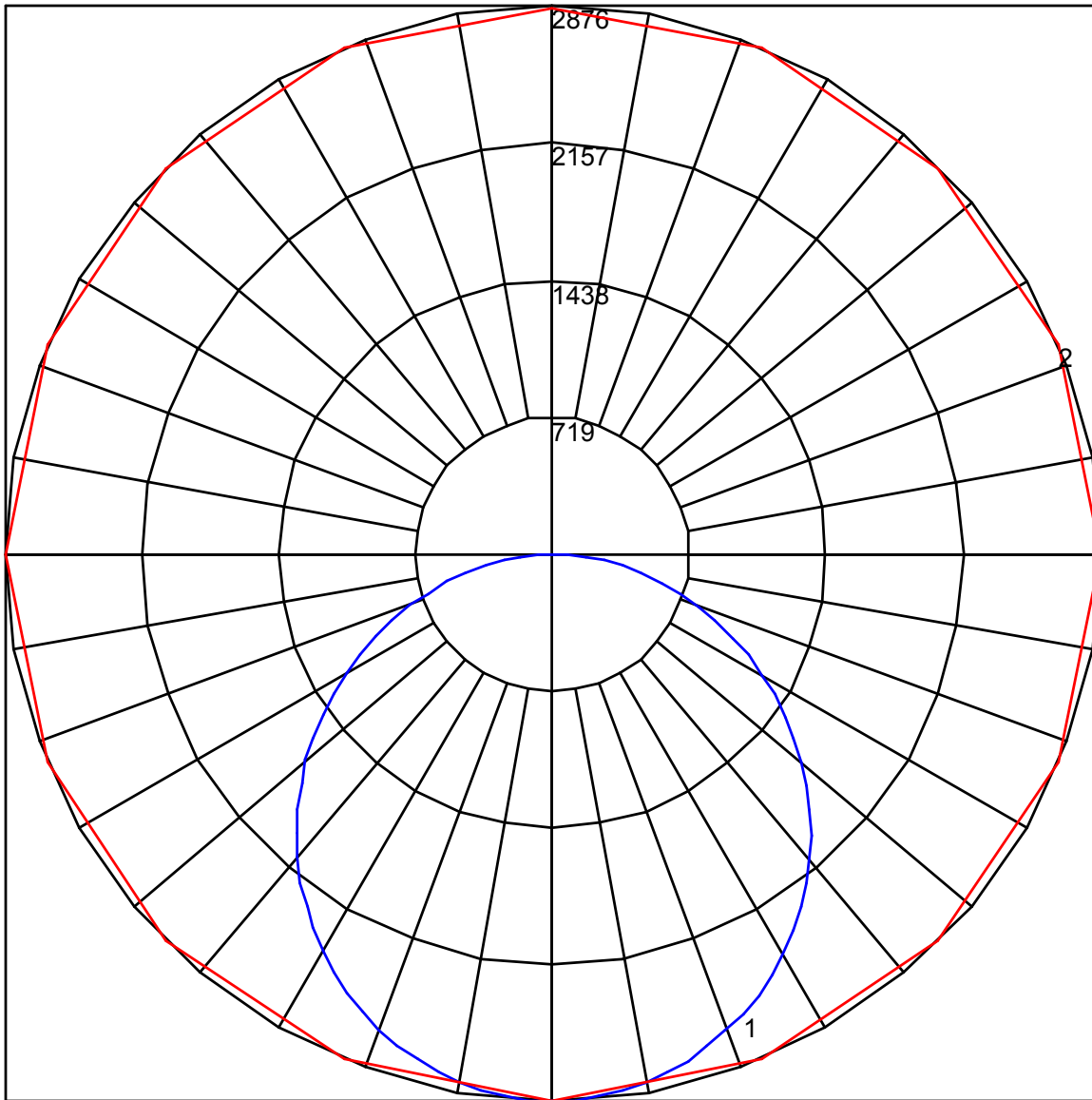
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2876.492 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.)