



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QD-33-LED35-MO-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

IESNA:LM-63-2002[ISSUE DATE][TEST] [TEST LAB] LIGHT LABORATORY, INC.[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] Quad-33-LED35-MO-D9

[LUMINAIRE] 36" W x 36" L X 5"H. LED LUMINAIRE

[MORE] FWA - WHITE ACRYLIC LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	108
Ballast Factor	1.00
CIE Type	Semi-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)	3.00 ft
Luminous Width (90-270)	3.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3202	3193	3179
55	3080	3066	3045
65	2918	2895	2877
75	2692	2657	2645
85	2326	2258	2288

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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	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619
2.5	2870.978	2871.704	2870.879	2869.900	2870.373	2869.900	2870.879	2871.704	2870.978	2871.704
5.0	2860.814	2860.880	2860.143	2859.890	2858.988	2859.890	2860.143	2860.880	2860.814	2860.880
7.5	2843.247	2843.423	2842.961	2842.543	2842.235	2842.543	2842.961	2843.423	2843.247	2843.423
10.0	2819.124	2819.553	2818.112	2817.738	2817.034	2817.738	2818.112	2819.553	2819.124	2819.553
12.5	2788.313	2789.259	2787.455	2786.982	2786.025	2786.982	2787.455	2789.259	2788.313	2789.259
15.0	2753.025	2752.530	2751.386	2749.934	2749.626	2749.934	2751.386	2752.530	2753.025	2752.530
17.5	2710.070	2710.169	2709.267	2706.682	2706.000	2706.682	2709.267	2710.169	2710.070	2710.169
20.0	2662.605	2661.846	2660.471	2658.337	2656.148	2658.337	2660.471	2661.846	2662.605	2661.846
22.5	2608.320	2607.946	2605.735	2602.435	2601.467	2602.435	2605.735	2607.946	2608.320	2607.946
25.0	2548.920	2548.370	2545.477	2542.969	2541.803	2542.969	2545.477	2548.370	2548.920	2548.370
27.5	2483.932	2482.821	2478.938	2475.957	2473.988	2475.957	2478.938	2482.821	2483.932	2482.821
30.0	2411.981	2411.838	2408.571	2405.172	2402.807	2405.172	2408.571	2411.838	2411.981	2411.838
32.5	2336.653	2336.499	2332.451	2328.634	2328.425	2328.634	2332.451	2336.499	2336.653	2336.499
35.0	2258.421	2257.123	2252.767	2247.476	2248.026	2247.476	2252.767	2257.123	2258.421	2257.123
37.5	2174.700	2172.610	2167.660	2162.501	2162.798	2162.501	2167.660	2172.610	2174.700	2172.610
40.0	2087.514	2083.983	2079.176	2073.522	2071.740	2073.522	2079.176	2083.983	2087.514	2083.983
42.5	1992.529	1991.418	1985.126	1980.022	1979.230	1980.022	1985.126	1991.418	1992.529	1991.418
45.0	1894.607	1895.729	1889.767	1882.683	1881.396	1882.683	1889.767	1895.729	1894.607	1895.729
47.5	1794.452	1795.134	1789.205	1782.517	1780.834	1782.517	1789.205	1795.134	1794.452	1795.134
50.0	1691.470	1690.975	1685.453	1679.777	1676.433	1679.777	1685.453	1690.975	1691.470	1690.975
52.5	1586.057	1585.045	1579.941	1573.605	1570.316	1573.605	1579.941	1585.045	1586.057	1585.045
55.0	1478.554	1477.740	1471.635	1465.002	1461.471	1465.002	1471.635	1477.740	1478.554	1477.740
57.5	1366.981	1367.487	1361.019	1354.177	1351.427	1354.177	1361.019	1367.487	1366.981	1367.487
60.0	1255.386	1256.035	1249.963	1242.945	1241.570	1242.945	1249.963	1256.035	1255.386	1256.035
62.5	1143.758	1142.812	1136.971	1131.911	1129.568	1131.911	1136.971	1142.812	1143.758	1142.812
65.0	1032.086	1029.094	1024.111	1018.193	1017.654	1018.193	1024.111	1029.094	1032.086	1029.094
67.5	918.709	916.916	910.877	905.564	905.256	905.564	910.877	916.916	918.709	916.916
70.0	804.529	803.473	796.466	792.385	792.924	792.385	796.466	803.473	804.529	803.473
72.5	692.593	691.009	684.574	681.098	681.758	681.098	684.574	691.009	692.593	691.009
75.0	583.088	580.536	575.619	572.363	572.869	572.363	575.619	580.536	583.088	580.536
77.5	475.673	472.340	467.181	465.531	465.377	465.531	467.181	472.340	475.673	472.340
80.0	369.611	366.927	361.548	360.591	360.382	360.591	361.548	366.927	369.611	366.927
82.5	266.189	265.969	260.150	259.314	261.558	259.314	260.150	265.969	266.189	265.969
85.0	169.664	168.960	164.681	165.187	166.925	165.187	164.681	168.960	169.664	168.960
87.5	80.509	80.729	74.283	75.339	76.010	75.339	74.283	80.729	80.509	80.729
90.0	81.147	83.732	72.699	38.841	9.702	38.841	72.699	83.732	81.147	83.732
92.5	110.143	102.443	77.275	44.528	20.383	44.528	77.275	102.443	110.143	102.443
95.0	110.561	104.159	81.719	52.261	36.421	52.261	81.719	104.159	110.561	104.159
97.5	123.024	116.490	93.104	63.217	49.819	63.217	93.104	116.490	123.024	116.490
100.0	137.852	130.922	107.448	76.901	67.430	76.901	107.448	130.922	137.852	130.922
102.5	153.758	147.290	121.957	91.795	85.503	91.795	121.957	147.290	153.758	147.290
105.0	171.039	164.472	137.390	108.471	102.234	108.471	137.390	164.472	171.039	164.472
107.5	186.978	179.102	153.340	126.071	121.726	126.071	153.340	179.102	186.978	179.102
110.0	201.729	194.238	170.588	144.617	141.757	144.617	170.588	194.238	201.729	194.238
112.5	216.821	210.221	187.517	164.175	155.485	164.175	187.517	210.221	216.821	210.221
115.0	234.993	228.074	206.393	182.523	181.280	182.523	206.393	228.074	234.993	228.074
117.5	254.144	247.170	225.643	203.060	200.398	203.060	225.643	247.170	254.144	247.170
120.0	272.833	267.619	244.486	222.992	217.613	222.992	244.486	267.619	272.833	267.619
122.5	291.973	286.594	265.540	247.236	237.314	247.236	265.540	286.594	291.973	286.594
125.0	310.376	305.437	286.286	266.024	263.659	266.024	286.286	305.437	310.376	305.437
127.5	330.693	325.193	305.987	285.230	278.212	285.230	305.987	325.193	330.693	325.193
130.0	350.152	345.048	327.679	307.175	300.168	307.175	327.679	345.048	350.152	345.048
132.5	369.963	364.243	350.691	326.326	325.578	326.326	350.691	364.243	369.963	364.243

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CANDELA TABULATION - (Cont.)

135.0	388.993	382.833	369.094	346.566	345.609	346.566	369.094	382.833	388.993	382.833
137.5	406.296	400.367	386.914	367.851	361.240	367.851	386.914	400.367	406.296	400.367
140.0	424.600	417.692	404.492	393.041	381.150	393.041	404.492	417.692	424.600	417.692
142.5	439.835	434.588	421.432	413.391	406.439	413.391	421.432	434.588	439.835	434.588
145.0	456.390	450.076	440.275	429.165	428.406	429.165	440.275	450.076	456.390	450.076
147.5	470.107	465.234	456.599	445.544	443.080	445.544	456.599	465.234	470.107	465.234
150.0	485.045	479.226	471.020	460.317	458.150	460.317	471.020	479.226	485.045	479.226
152.5	497.365	492.976	484.044	477.048	471.372	477.048	484.044	492.976	497.365	492.976
155.0	510.488	505.164	497.915	491.403	488.818	491.403	497.915	505.164	510.488	505.164
157.5	521.015	517.044	509.729	503.349	502.832	503.349	509.729	517.044	521.015	517.044
160.0	530.068	527.428	521.224	514.712	513.634	514.712	521.224	527.428	530.068	527.428
162.5	539.000	536.382	532.510	526.845	525.305	526.845	532.510	536.382	539.000	536.382
165.0	546.623	544.423	540.419	536.470	535.854	536.470	540.419	544.423	546.623	544.423
167.5	552.574	551.133	548.284	545.292	546.524	545.292	548.284	551.133	552.574	551.133
170.0	557.942	557.040	554.290	551.331	552.948	551.331	554.290	557.040	557.942	557.040
172.5	561.682	561.044	559.603	557.469	557.304	557.469	559.603	561.044	561.682	561.044
175.0	564.949	564.564	562.639	562.056	563.112	562.056	562.639	564.564	564.949	564.564
177.5	566.709	566.060	565.345	564.333	564.531	564.333	565.345	566.060	566.709	566.060
180.0	565.741	565.741	565.741	565.741	565.741	565.741	565.741	565.741	565.741	565.741

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	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619	2874.619
2.5	2870.879	2869.900	2870.373	2869.900	2870.879	2871.704	2870.978
5.0	2860.143	2859.890	2858.988	2859.890	2860.143	2860.880	2860.814
7.5	2842.961	2842.543	2842.235	2842.543	2842.961	2843.423	2843.247
10.0	2818.112	2817.738	2817.034	2817.738	2818.112	2819.553	2819.124
12.5	2787.455	2786.982	2786.025	2786.982	2787.455	2789.259	2788.313
15.0	2751.386	2749.934	2749.626	2749.934	2751.386	2752.530	2753.025
17.5	2709.267	2706.682	2706.000	2706.682	2709.267	2710.169	2710.070
20.0	2660.471	2658.337	2656.148	2658.337	2660.471	2661.846	2662.605
22.5	2605.735	2602.435	2601.467	2602.435	2605.735	2607.946	2608.320
25.0	2545.477	2542.969	2541.803	2542.969	2545.477	2548.370	2548.920
27.5	2478.938	2475.957	2473.988	2475.957	2478.938	2482.821	2483.932
30.0	2408.571	2405.172	2402.807	2405.172	2408.571	2411.838	2411.981
32.5	2332.451	2328.634	2328.425	2328.634	2332.451	2336.499	2336.653
35.0	2252.767	2247.476	2248.026	2247.476	2252.767	2257.123	2258.421
37.5	2167.660	2162.501	2162.798	2162.501	2167.660	2172.610	2174.700
40.0	2079.176	2073.522	2071.740	2073.522	2079.176	2083.983	2087.514
42.5	1985.126	1980.022	1979.230	1980.022	1985.126	1991.418	1992.529
45.0	1889.767	1882.683	1881.396	1882.683	1889.767	1895.729	1894.607
47.5	1789.205	1782.517	1780.834	1782.517	1789.205	1795.134	1794.452
50.0	1685.453	1679.777	1676.433	1679.777	1685.453	1690.975	1691.470
52.5	1579.941	1573.605	1570.316	1573.605	1579.941	1585.045	1586.057
55.0	1471.635	1465.002	1461.471	1465.002	1471.635	1477.740	1478.554
57.5	1361.019	1354.177	1351.427	1354.177	1361.019	1367.487	1366.981
60.0	1249.963	1242.945	1241.570	1242.945	1249.963	1256.035	1255.386
62.5	1136.971	1131.911	1129.568	1131.911	1136.971	1142.812	1143.758
65.0	1024.111	1018.193	1017.654	1018.193	1024.111	1029.094	1032.086
67.5	910.877	905.564	905.256	905.564	910.877	916.916	918.709
70.0	796.466	792.385	792.924	792.385	796.466	803.473	804.529
72.5	684.574	681.098	681.758	681.098	684.574	691.009	692.593
75.0	575.619	572.363	572.869	572.363	575.619	580.536	583.088
77.5	467.181	465.531	465.377	465.531	467.181	472.340	475.673
80.0	361.548	360.591	360.382	360.591	361.548	366.927	369.611

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CANDELA TABULATION - (Cont.)

82.5	260.150	259.314	261.558	259.314	260.150	265.969	266.189
85.0	164.681	165.187	166.925	165.187	164.681	168.960	169.664
87.5	74.283	75.339	76.010	75.339	74.283	80.729	80.509
90.0	72.699	38.841	9.702	38.841	72.699	83.732	81.147
92.5	77.275	44.528	20.383	44.528	77.275	102.443	110.143
95.0	81.719	52.261	36.421	52.261	81.719	104.159	110.561
97.5	93.104	63.217	49.819	63.217	93.104	116.490	123.024
100.0	107.448	76.901	67.430	76.901	107.448	130.922	137.852
102.5	121.957	91.795	85.503	91.795	121.957	147.290	153.758
105.0	137.390	108.471	102.234	108.471	137.390	164.472	171.039
107.5	153.340	126.071	121.726	126.071	153.340	179.102	186.978
110.0	170.588	144.617	141.757	144.617	170.588	194.238	201.729
112.5	187.517	164.175	155.485	164.175	187.517	210.221	216.821
115.0	206.393	182.523	181.280	182.523	206.393	228.074	234.993
117.5	225.643	203.060	200.398	203.060	225.643	247.170	254.144
120.0	244.486	222.992	217.613	222.992	244.486	267.619	272.833
122.5	265.540	247.236	237.314	247.236	265.540	286.594	291.973
125.0	286.286	266.024	263.659	266.024	286.286	305.437	310.376
127.5	305.987	285.230	278.212	285.230	305.987	325.193	330.693
130.0	327.679	307.175	300.168	307.175	327.679	345.048	350.152
132.5	350.691	326.326	325.578	326.326	350.691	364.243	369.963
135.0	369.094	346.566	345.609	346.566	369.094	382.833	388.993
137.5	386.914	367.851	361.240	367.851	386.914	400.367	406.296
140.0	404.492	393.041	381.150	393.041	404.492	417.692	424.600
142.5	421.432	413.391	406.439	413.391	421.432	434.588	439.835
145.0	440.275	429.165	428.406	429.165	440.275	450.076	456.390
147.5	456.599	445.544	443.080	445.544	456.599	465.234	470.107
150.0	471.020	460.317	458.150	460.317	471.020	479.226	485.045
152.5	484.044	477.048	471.372	477.048	484.044	492.976	497.365
155.0	497.915	491.403	488.818	491.403	497.915	505.164	510.488
157.5	509.729	503.349	502.832	503.349	509.729	517.044	521.015
160.0	521.224	514.712	513.634	514.712	521.224	527.428	530.068
162.5	532.510	526.845	525.305	526.845	532.510	536.382	539.000
165.0	540.419	536.470	535.854	536.470	540.419	544.423	546.623
167.5	548.284	545.292	546.524	545.292	548.284	551.133	552.574
170.0	554.290	551.331	552.948	551.331	554.290	557.040	557.942
172.5	559.603	557.469	557.304	557.469	559.603	561.044	561.682
175.0	562.639	562.056	563.112	562.056	562.639	564.564	564.949
177.5	565.345	564.333	564.531	564.333	565.345	566.060	566.709
180.0	565.741	565.741	565.741	565.741	565.741	565.741	565.741

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1048.01	N.A.	10.60
0-30	2220.75	N.A.	22.40
0-40	3629.65	N.A.	36.60
0-60	6400.99	N.A.	64.60
0-80	8024.41	N.A.	81.00
0-90	8219.84	N.A.	83.00
10-90	7948.14	N.A.	80.20
20-40	2581.64	N.A.	26.10
20-50	4038.35	N.A.	40.80
40-70	3784.93	N.A.	38.20
60-80	1623.43	N.A.	16.40
70-80	609.83	N.A.	6.20
80-90	195.43	N.A.	2.00
90-110	232.44	N.A.	2.30
90-120	437.13	N.A.	4.40
90-130	692.82	N.A.	7.00
90-150	1250.58	N.A.	12.60
90-180	1686.12	N.A.	17.00
110-180	1453.68	N.A.	14.70
0-180	9905.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.70
10-20	776.31
20-30	1172.74
30-40	1408.9
40-50	1456.7
50-60	1314.63
60-70	1013.6
70-80	609.83
80-90	195.43
90-100	87.89
100-110	144.55
110-120	204.69
120-130	255.70
130-140	282.60
140-150	275.15
150-160	229.53
160-170	152.53
170-180	53.48

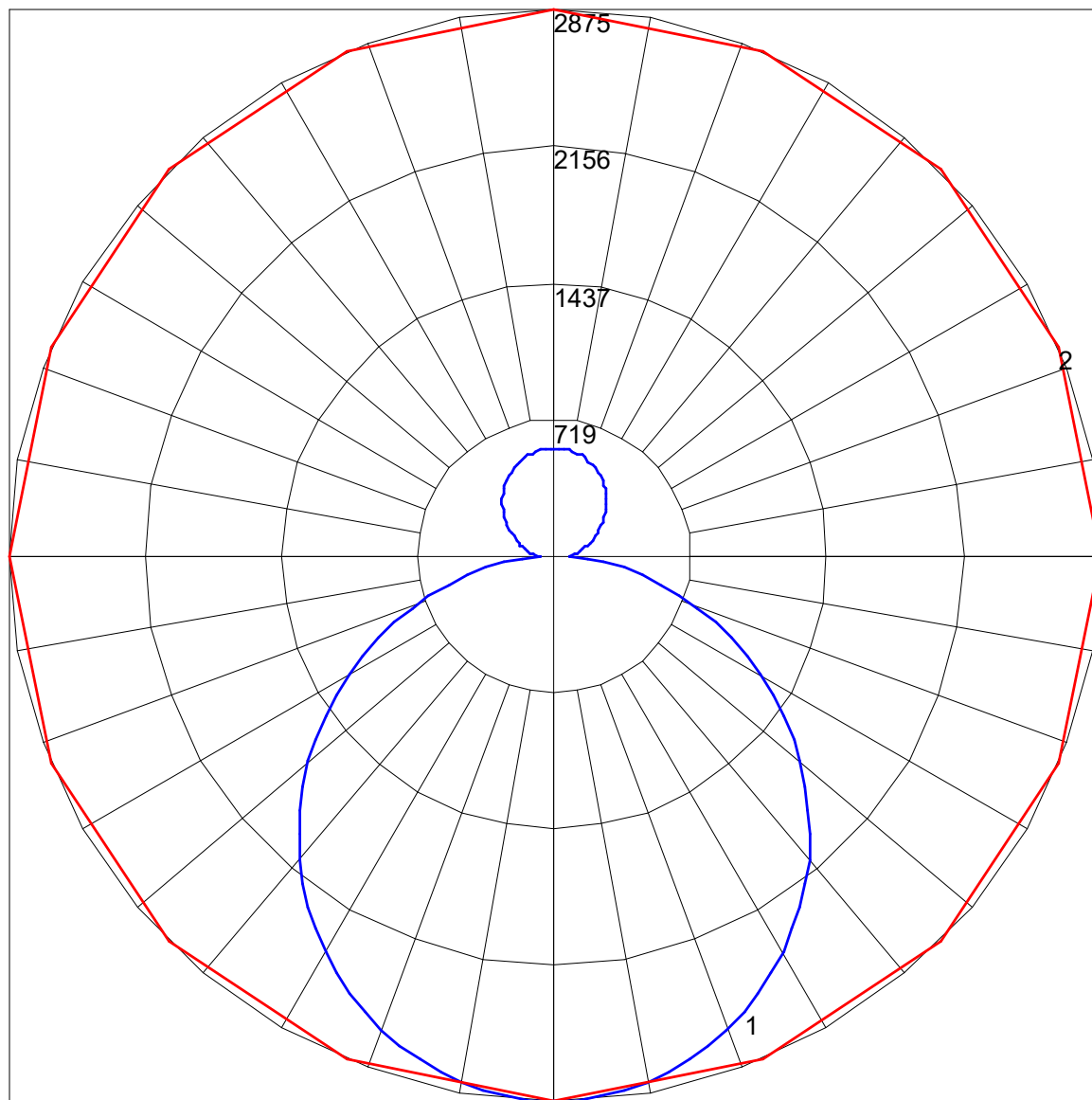
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83
1	105	100	96	92	100	96	92	89	89	86	83	82	80	77	76	74	72	69
2	95	87	80	75	91	84	78	72	77	72	68	72	68	64	66	63	60	57
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	58	54	51	48
4	79	67	59	52	76	65	57	51	60	54	48	56	50	46	52	47	44	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35
6	67	54	45	39	64	52	44	38	49	42	36	45	39	35	42	37	33	31
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	33	30	27
8	58	45	36	30	55	43	35	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	30	25	22	20

POLAR GRAPH



Maximum Candela = 2874.619 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)