



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-22-LED35-MO-D1-PATTERNS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-20-LED35-MO-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 13, 2017
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	40
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)	3.17 ft
Luminous Width (90-270)	3.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	806	809	813
55	778	783	787
65	738	747	750
75	684	699	699
85	600	619	614

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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	801.350	801.350	801.350	801.350	801.350	801.350	801.350	801.350	801.350	801.350
2.5	800.548	800.579	800.344	800.270	800.532	800.270	800.344	800.579	800.548	800.579
5.0	797.663	797.793	797.766	797.442	797.865	797.442	797.766	797.793	797.663	797.793
7.5	793.077	793.164	793.187	793.110	793.380	793.110	793.187	793.164	793.077	793.164
10.0	786.588	786.672	786.755	786.644	786.956	786.644	786.755	786.672	786.588	786.672
12.5	778.376	778.402	778.466	778.652	778.974	778.652	778.466	778.402	778.376	778.402
15.0	768.481	768.461	768.759	768.928	769.413	768.928	768.759	768.461	768.481	768.461
17.5	756.794	756.931	757.219	757.528	758.013	757.528	757.219	756.931	756.794	756.931
20.0	743.492	743.764	744.290	744.292	745.133	744.292	744.290	743.764	743.492	743.764
22.5	728.680	728.738	729.193	729.605	730.331	729.605	729.193	728.738	728.680	728.738
25.0	712.071	712.318	712.845	713.485	714.154	713.485	712.845	712.318	712.071	712.318
27.5	694.183	694.359	694.927	695.618	696.627	695.618	694.927	694.359	694.183	694.359
30.0	674.003	675.073	675.584	676.276	677.639	676.276	675.584	675.073	674.003	675.073
32.5	652.870	654.306	655.030	655.858	657.208	655.858	655.030	654.306	652.870	654.306
35.0	630.955	632.008	633.225	634.106	635.211	634.106	633.225	632.008	630.955	632.008
37.5	608.339	608.660	609.914	610.967	611.989	610.967	609.914	608.660	608.339	608.660
40.0	584.442	584.306	585.781	586.886	587.839	586.886	585.781	584.306	584.442	584.306
42.5	558.996	558.810	560.239	561.483	562.588	561.483	560.239	558.810	558.996	558.810
45.0	531.526	532.074	533.725	534.934	536.050	534.934	533.725	532.074	531.526	532.074
47.5	503.321	504.341	505.999	507.642	508.299	507.642	505.999	504.341	503.321	504.341
50.0	474.912	476.000	477.559	479.469	479.735	479.469	477.559	476.000	474.912	476.000
52.5	446.092	446.880	448.512	450.273	450.612	450.273	448.512	446.880	446.092	446.880
55.0	416.324	416.876	418.903	420.462	420.751	420.462	418.903	416.876	416.324	416.876
57.5	385.497	386.369	388.498	390.213	390.018	390.213	388.498	386.369	385.497	386.369
60.0	354.095	355.352	357.276	359.382	358.800	359.382	357.276	355.352	354.095	355.352
62.5	322.483	324.102	325.840	327.883	327.311	327.883	325.840	324.102	322.483	324.102
65.0	290.897	292.913	294.303	295.993	295.569	295.993	294.303	292.913	290.897	292.913
67.5	259.568	261.143	262.817	264.406	263.579	264.406	262.817	261.143	259.568	261.143
70.0	227.987	229.423	231.462	232.742	231.586	232.742	231.462	229.423	227.987	229.423
72.5	196.381	198.216	199.677	201.317	200.121	201.317	199.677	198.216	196.381	198.216
75.0	165.052	167.631	168.587	170.118	168.745	170.118	168.587	167.631	165.052	167.631
77.5	134.767	137.137	138.408	139.074	137.985	139.074	138.408	137.137	134.767	137.137
80.0	105.244	107.181	108.234	108.753	107.468	108.753	108.234	107.181	105.244	107.181
82.5	76.640	77.954	78.731	79.241	78.026	79.241	78.731	77.954	76.640	77.954
85.0	48.747	49.851	50.300	50.969	49.926	50.969	50.300	49.851	48.747	49.851
87.5	22.296	23.241	23.396	24.149	23.232	24.149	23.396	23.241	22.296	23.241
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	801.350	801.350	801.350	801.350	801.350	801.350	801.350
2.5	800.344	800.270	800.532	800.270	800.344	800.579	800.548
5.0	797.766	797.442	797.865	797.442	797.766	797.793	797.663
7.5	793.187	793.110	793.380	793.110	793.187	793.164	793.077
10.0	786.755	786.644	786.956	786.644	786.755	786.672	786.588
12.5	778.466	778.652	778.974	778.652	778.466	778.402	778.376
15.0	768.759	768.928	769.413	768.928	768.759	768.461	768.481
17.5	757.219	757.528	758.013	757.528	757.219	756.931	756.794
20.0	744.290	744.292	745.133	744.292	744.290	743.764	743.492
22.5	729.193	729.605	730.331	729.605	729.193	728.738	728.680
25.0	712.845	713.485	714.154	713.485	712.845	712.318	712.071
27.5	694.927	695.618	696.627	695.618	694.927	694.359	694.183
30.0	675.584	676.276	677.639	676.276	675.584	675.073	674.003
32.5	655.030	655.858	657.208	655.858	655.030	654.306	652.870
35.0	633.225	634.106	635.211	634.106	633.225	632.008	630.955
37.5	609.914	610.967	611.989	610.967	609.914	608.660	608.339
40.0	585.781	586.886	587.839	586.886	585.781	584.306	584.442
42.5	560.239	561.483	562.588	561.483	560.239	558.810	558.996
45.0	533.725	534.934	536.050	534.934	533.725	532.074	531.526
47.5	505.999	507.642	508.299	507.642	505.999	504.341	503.321
50.0	477.559	479.469	479.735	479.469	477.559	476.000	474.912
52.5	448.512	450.273	450.612	450.273	448.512	446.880	446.092
55.0	418.903	420.462	420.751	420.462	418.903	416.876	416.324
57.5	388.498	390.213	390.018	390.213	388.498	386.369	385.497
60.0	357.276	359.382	358.800	359.382	357.276	355.352	354.095
62.5	325.840	327.883	327.311	327.883	325.840	324.102	322.483
65.0	294.303	295.993	295.569	295.993	294.303	292.913	290.897
67.5	262.817	264.406	263.579	264.406	262.817	261.143	259.568
70.0	231.462	232.742	231.586	232.742	231.462	229.423	227.987
72.5	199.677	201.317	200.121	201.317	199.677	198.216	196.381
75.0	168.587	170.118	168.745	170.118	168.587	167.631	165.052
77.5	138.408	139.074	137.985	139.074	138.408	137.137	134.767
80.0	108.234	108.753	107.468	108.753	108.234	107.181	105.244

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CANDELA TABULATION - (Cont.)

82.5	78.731	79.241	78.026	79.241	78.731	77.954	76.640
85.0	50.300	50.969	49.926	50.969	50.300	49.851	48.747
87.5	23.396	24.149	23.232	24.149	23.396	23.241	22.296
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	292.75	N.A.	12.60
0-30	621.29	N.A.	26.70
0-40	1017.34	N.A.	43.70
0-60	1803.04	N.A.	77.40
0-80	2272.1	N.A.	97.60
0-90	2328.04	N.A.	100.00
10-90	2252.25	N.A.	96.70
20-40	724.59	N.A.	31.10
20-50	1136.15	N.A.	48.80
40-70	1076.8	N.A.	46.30
60-80	469.05	N.A.	20.10
70-80	177.96	N.A.	7.60
80-90	55.95	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2328.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.80
10-20	216.95
20-30	328.54
30-40	396.05
40-50	411.56
50-60	374.15
60-70	291.10
70-80	177.96
80-90	55.95
90-100	0.00
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

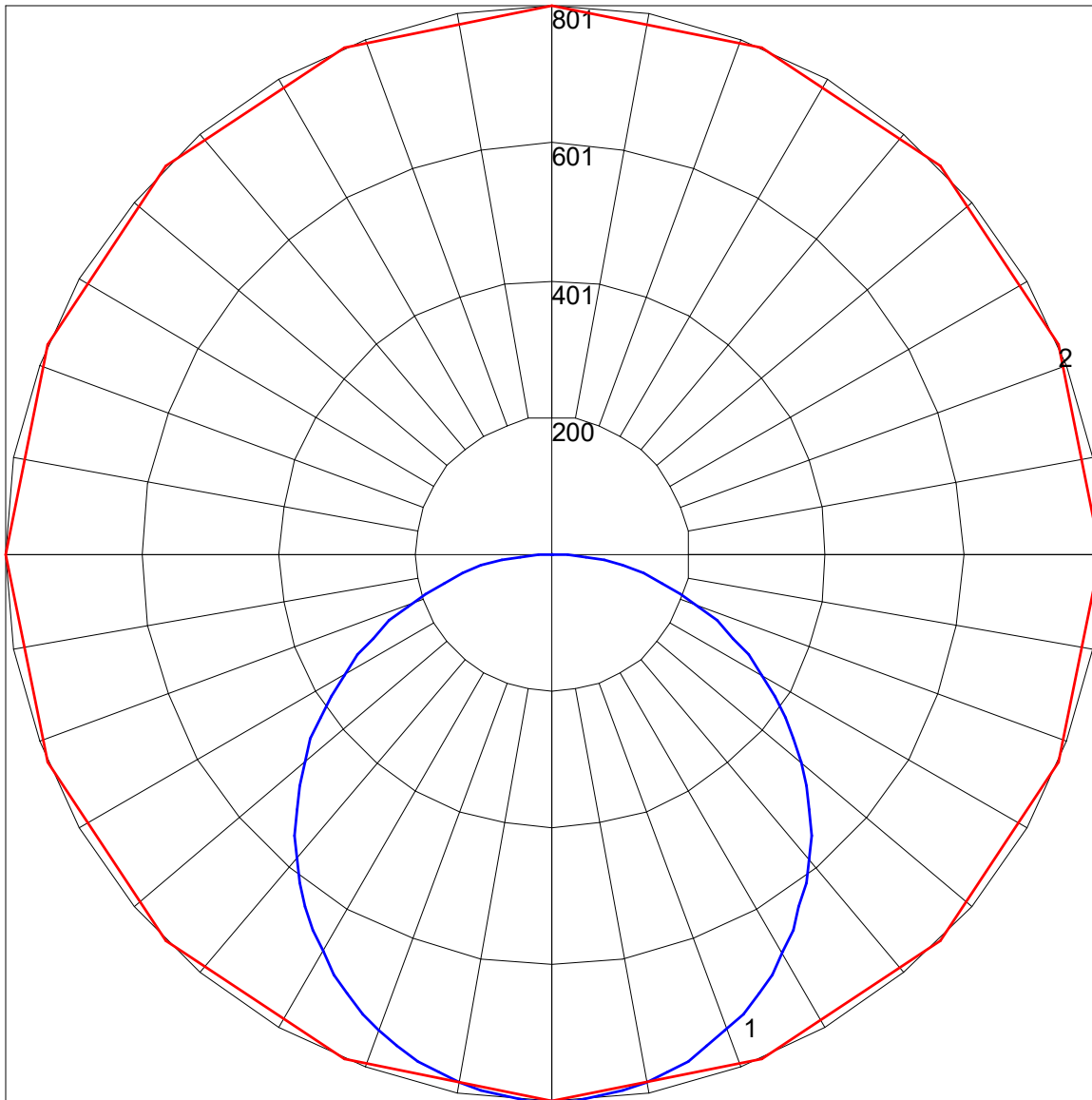
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 801.35 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.)