



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-20-LED35-SO-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	3403
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	60
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	1178	1183	1188
55	1138	1145	1150
65	1079	1091	1096
75	1000	1021	1022
85	877	905	898

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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	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204
2.5	1170.031	1170.077	1169.733	1169.625	1170.009	1169.625	1169.733	1170.077	1170.031	1170.077
5.0	1165.815	1166.005	1165.965	1165.492	1166.110	1165.492	1165.965	1166.005	1165.815	1166.005
7.5	1159.112	1159.239	1159.274	1159.161	1159.555	1159.161	1159.274	1159.239	1159.112	1159.239
10.0	1149.629	1149.751	1149.872	1149.711	1150.167	1149.711	1149.872	1149.751	1149.629	1149.751
12.5	1137.627	1137.665	1137.758	1138.030	1138.501	1138.030	1137.758	1137.665	1137.627	1137.665
15.0	1123.164	1123.136	1123.571	1123.818	1124.526	1123.818	1123.571	1123.136	1123.164	1123.136
17.5	1106.083	1106.284	1106.704	1107.157	1107.865	1107.157	1106.704	1106.284	1106.083	1106.284
20.0	1086.642	1087.039	1087.809	1087.811	1089.040	1087.811	1087.809	1087.039	1086.642	1087.039
22.5	1064.994	1065.079	1065.744	1066.346	1067.407	1066.346	1065.744	1065.079	1064.994	1065.079
25.0	1040.719	1041.080	1041.850	1042.786	1043.763	1042.786	1041.850	1041.080	1040.719	1041.080
27.5	1014.575	1014.832	1015.662	1016.673	1018.147	1016.673	1015.662	1014.832	1014.575	1014.832
30.0	985.082	986.645	987.392	988.403	990.396	988.403	987.392	986.645	985.082	986.645
32.5	954.195	956.293	957.351	958.561	960.535	958.561	957.351	956.293	954.195	956.293
35.0	922.165	923.704	925.482	926.771	928.386	926.771	925.482	923.704	922.165	923.704
37.5	889.111	889.580	891.413	892.952	894.446	892.952	891.413	889.580	889.111	889.580
40.0	854.185	853.985	856.142	857.757	859.150	857.757	856.142	853.985	854.185	853.985
42.5	816.994	816.723	818.811	820.629	822.244	820.629	818.811	816.723	816.994	816.723
45.0	776.845	777.647	780.060	781.827	783.457	781.827	780.060	777.647	776.845	777.647
47.5	735.623	737.114	739.537	741.939	742.898	741.939	739.537	737.114	735.623	737.114
50.0	694.102	695.693	697.971	700.762	701.151	700.762	697.971	695.693	694.102	695.693
52.5	651.981	653.133	655.517	658.092	658.587	658.092	655.517	653.133	651.981	653.133
55.0	608.473	609.281	612.243	614.521	614.944	614.521	612.243	609.281	608.473	609.281
57.5	563.418	564.693	567.805	570.312	570.027	570.312	567.805	564.693	563.418	564.693
60.0	517.524	519.361	522.173	525.251	524.400	525.251	522.173	519.361	517.524	519.361
62.5	471.322	473.687	476.227	479.214	478.378	479.214	476.227	473.687	471.322	473.687
65.0	425.157	428.104	430.135	432.605	431.986	432.605	430.135	428.104	425.157	428.104
67.5	379.369	381.670	384.117	386.439	385.231	386.439	384.117	381.670	379.369	381.670
70.0	333.212	335.310	338.291	340.161	338.472	340.161	338.291	335.310	333.212	335.310
72.5	287.018	289.701	291.836	294.232	292.484	294.232	291.836	289.701	287.018	289.701
75.0	241.230	244.999	246.396	248.634	246.628	248.634	246.396	244.999	241.230	244.999
77.5	196.967	200.431	202.289	203.262	201.670	203.262	202.289	200.431	196.967	200.431
80.0	153.818	156.649	158.188	158.946	157.069	158.946	158.188	156.649	153.818	156.649
82.5	112.013	113.933	115.068	115.814	114.038	115.814	115.068	113.933	112.013	113.933
85.0	71.246	72.859	73.515	74.493	72.969	74.493	73.515	72.859	71.246	72.859
87.5	32.587	33.968	34.194	35.294	33.955	35.294	34.194	33.968	32.587	33.968
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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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	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204	1171.204
2.5	1169.733	1169.625	1170.009	1169.625	1169.733	1170.077	1170.031
5.0	1165.965	1165.492	1166.110	1165.492	1165.965	1166.005	1165.815
7.5	1159.274	1159.161	1159.555	1159.161	1159.274	1159.239	1159.112
10.0	1149.872	1149.711	1150.167	1149.711	1149.872	1149.751	1149.629
12.5	1137.758	1138.030	1138.501	1138.030	1137.758	1137.665	1137.627
15.0	1123.571	1123.818	1124.526	1123.818	1123.571	1123.136	1123.164
17.5	1106.704	1107.157	1107.865	1107.157	1106.704	1106.284	1106.083
20.0	1087.809	1087.811	1089.040	1087.811	1087.809	1087.039	1086.642
22.5	1065.744	1066.346	1067.407	1066.346	1065.744	1065.079	1064.994
25.0	1041.850	1042.786	1043.763	1042.786	1041.850	1041.080	1040.719
27.5	1015.662	1016.673	1018.147	1016.673	1015.662	1014.832	1014.575
30.0	987.392	988.403	990.396	988.403	987.392	986.645	985.082
32.5	957.351	958.561	960.535	958.561	957.351	956.293	954.195
35.0	925.482	926.771	928.386	926.771	925.482	923.704	922.165
37.5	891.413	892.952	894.446	892.952	891.413	889.580	889.111
40.0	856.142	857.757	859.150	857.757	856.142	853.985	854.185
42.5	818.811	820.629	822.244	820.629	818.811	816.723	816.994
45.0	780.060	781.827	783.457	781.827	780.060	777.647	776.845
47.5	739.537	741.939	742.898	741.939	739.537	737.114	735.623
50.0	697.971	700.762	701.151	700.762	697.971	695.693	694.102
52.5	655.517	658.092	658.587	658.092	655.517	653.133	651.981
55.0	612.243	614.521	614.944	614.521	612.243	609.281	608.473
57.5	567.805	570.312	570.027	570.312	567.805	564.693	563.418
60.0	522.173	525.251	524.400	525.251	522.173	519.361	517.524
62.5	476.227	479.214	478.378	479.214	476.227	473.687	471.322
65.0	430.135	432.605	431.986	432.605	430.135	428.104	425.157
67.5	384.117	386.439	385.231	386.439	384.117	381.670	379.369
70.0	338.291	340.161	338.472	340.161	338.291	335.310	333.212
72.5	291.836	294.232	292.484	294.232	291.836	289.701	287.018
75.0	246.396	248.634	246.628	248.634	246.396	244.999	241.230
77.5	202.289	203.262	201.670	203.262	202.289	200.431	196.967
80.0	158.188	158.946	157.069	158.946	158.188	156.649	153.818

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CANDELA TABULATION - (Cont.)

82.5	115.068	115.814	114.038	115.814	115.068	113.933	112.013
85.0	73.515	74.493	72.969	74.493	73.515	72.859	71.246
87.5	34.194	35.294	33.955	35.294	34.194	33.968	32.587
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	427.86	N.A.	12.60
0-30	908.04	N.A.	26.70
0-40	1486.88	N.A.	43.70
0-60	2635.22	N.A.	77.40
0-80	3320.76	N.A.	97.60
0-90	3402.53	N.A.	100.00
10-90	3291.74	N.A.	96.70
20-40	1059.02	N.A.	31.10
20-50	1660.52	N.A.	48.80
40-70	1573.79	N.A.	46.30
60-80	685.54	N.A.	20.10
70-80	260.09	N.A.	7.60
80-90	81.77	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	3402.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.78
10-20	317.08
20-30	480.18
30-40	578.84
40-50	601.50
50-60	546.84
60-70	425.45
70-80	260.09
80-90	81.77
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

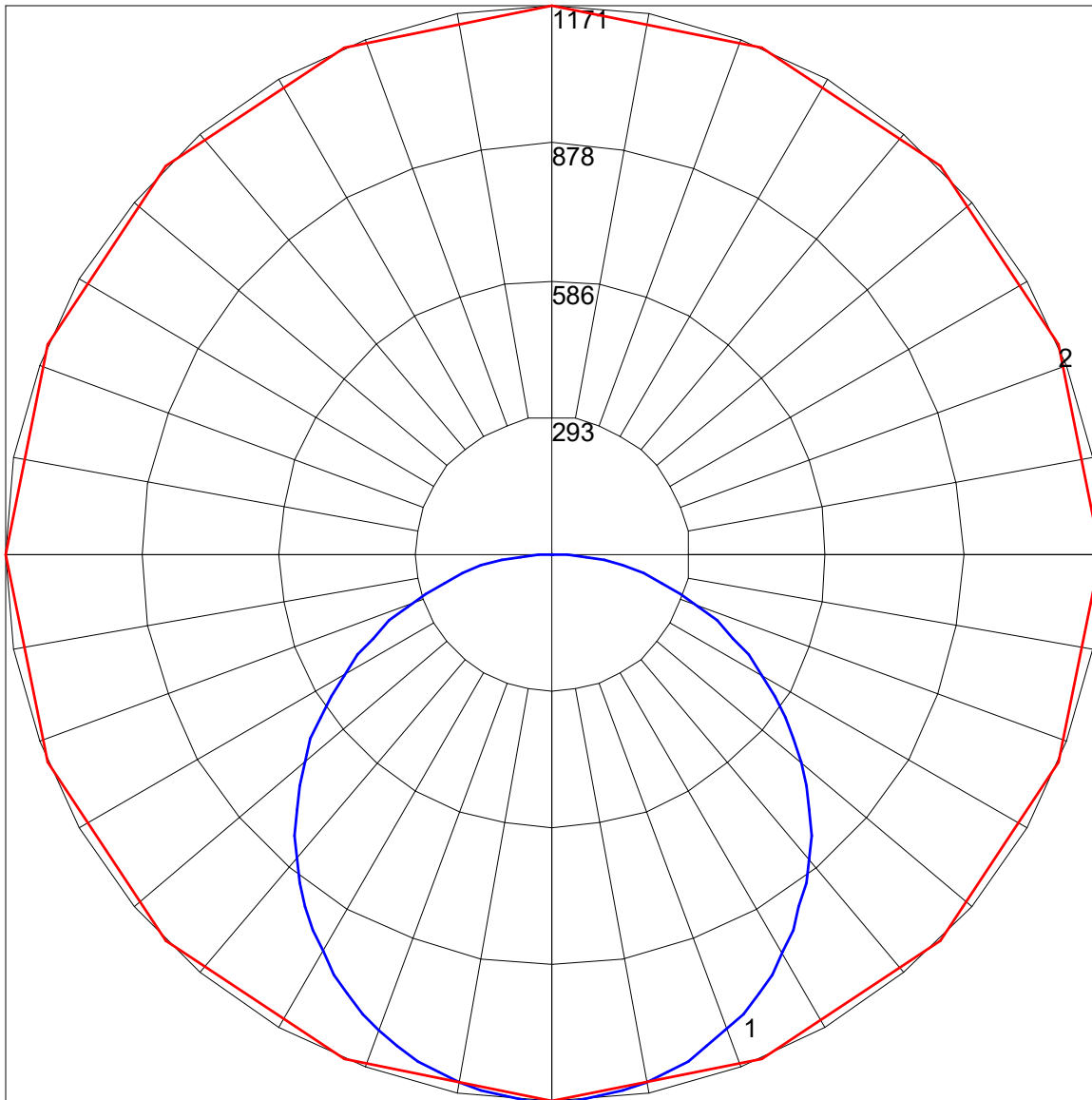
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	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	45	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	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1171.204 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.)