



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.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	3313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
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	1147	1152	1157
55	1108	1115	1119
65	1050	1063	1067
75	973	994	995
85	854	881	874

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383
2.5	1139.241	1139.286	1138.951	1138.845	1139.219	1138.845	1138.951	1139.286	1139.241	1139.286
5.0	1135.136	1135.321	1135.282	1134.821	1135.423	1134.821	1135.282	1135.321	1135.136	1135.321
7.5	1128.609	1128.733	1128.766	1128.657	1129.040	1128.657	1128.766	1128.733	1128.609	1128.733
10.0	1119.376	1119.494	1119.613	1119.455	1119.899	1119.455	1119.613	1119.494	1119.376	1119.494
12.5	1107.689	1107.726	1107.817	1108.082	1108.540	1108.082	1107.817	1107.726	1107.689	1107.726
15.0	1093.607	1093.579	1094.003	1094.244	1094.934	1094.244	1094.003	1093.579	1093.607	1093.579
17.5	1076.976	1077.172	1077.581	1078.021	1078.711	1078.021	1077.581	1077.172	1076.976	1077.172
20.0	1058.046	1058.433	1059.182	1059.184	1060.381	1059.184	1059.182	1058.433	1058.046	1058.433
22.5	1036.968	1037.051	1037.698	1038.285	1039.317	1038.285	1037.698	1037.051	1036.968	1037.051
25.0	1013.332	1013.683	1014.433	1015.345	1016.296	1015.345	1014.433	1013.683	1013.332	1013.683
27.5	987.876	988.126	988.934	989.918	991.354	989.918	988.934	988.126	987.876	988.126
30.0	959.158	960.681	961.408	962.392	964.333	962.392	961.408	960.681	959.158	960.681
32.5	929.085	931.127	932.158	933.336	935.258	933.336	932.158	931.127	929.085	931.127
35.0	897.898	899.396	901.128	902.382	903.954	902.382	901.128	899.396	897.898	899.396
37.5	865.713	866.170	867.955	869.454	870.908	869.454	867.955	866.170	865.713	866.170
40.0	831.706	831.512	833.612	835.184	836.540	835.184	833.612	831.512	831.706	831.512
42.5	795.494	795.230	797.263	799.034	800.606	799.034	797.263	795.230	795.494	795.230
45.0	756.402	757.183	759.532	761.253	762.840	761.253	759.532	757.183	756.402	757.183
47.5	716.265	717.717	720.076	722.414	723.348	722.414	720.076	717.717	716.265	717.717
50.0	675.836	677.385	679.603	682.321	682.700	682.321	679.603	677.385	675.836	677.385
52.5	634.824	635.945	638.267	640.773	641.256	640.773	638.267	635.945	634.824	635.945
55.0	592.461	593.247	596.131	598.349	598.762	598.349	596.131	593.247	592.461	593.247
57.5	548.592	549.833	552.863	555.303	555.026	555.303	552.863	549.833	548.592	549.833
60.0	503.905	505.694	508.432	511.429	510.600	511.429	508.432	505.694	503.905	505.694
62.5	458.918	461.222	463.695	466.603	465.789	466.603	463.695	461.222	458.918	461.222
65.0	413.969	416.838	418.816	421.221	420.618	421.221	418.816	416.838	413.969	416.838
67.5	369.386	371.626	374.009	376.270	375.093	376.270	374.009	371.626	369.386	371.626
70.0	324.444	326.486	329.389	331.209	329.565	331.209	329.389	326.486	324.444	326.486
72.5	279.465	282.077	284.156	286.489	284.787	286.489	284.156	282.077	279.465	282.077
75.0	234.882	238.552	239.912	242.091	240.137	242.091	239.912	238.552	234.882	238.552
77.5	191.784	195.157	196.966	197.913	196.363	197.913	196.966	195.157	191.784	195.157
80.0	149.770	152.527	154.025	154.764	152.936	154.764	154.025	152.527	149.770	152.527
82.5	109.065	110.935	112.040	112.767	111.037	112.767	112.040	110.935	109.065	110.935
85.0	69.371	70.942	71.580	72.533	71.049	72.533	71.580	70.942	69.371	70.942
87.5	31.729	33.074	33.294	34.366	33.061	34.366	33.294	33.074	31.729	33.074
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.IES

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	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383	1140.383
2.5	1138.951	1138.845	1139.219	1138.845	1138.951	1139.286	1139.241
5.0	1135.282	1134.821	1135.423	1134.821	1135.282	1135.321	1135.136
7.5	1128.766	1128.657	1129.040	1128.657	1128.766	1128.733	1128.609
10.0	1119.613	1119.455	1119.899	1119.455	1119.613	1119.494	1119.376
12.5	1107.817	1108.082	1108.540	1108.082	1107.817	1107.726	1107.689
15.0	1094.003	1094.244	1094.934	1094.244	1094.003	1093.579	1093.607
17.5	1077.581	1078.021	1078.711	1078.021	1077.581	1077.172	1076.976
20.0	1059.182	1059.184	1060.381	1059.184	1059.182	1058.433	1058.046
22.5	1037.698	1038.285	1039.317	1038.285	1037.698	1037.051	1036.968
25.0	1014.433	1015.345	1016.296	1015.345	1014.433	1013.683	1013.332
27.5	988.934	989.918	991.354	989.918	988.934	988.126	987.876
30.0	961.408	962.392	964.333	962.392	961.408	960.681	959.158
32.5	932.158	933.336	935.258	933.336	932.158	931.127	929.085
35.0	901.128	902.382	903.954	902.382	901.128	899.396	897.898
37.5	867.955	869.454	870.908	869.454	867.955	866.170	865.713
40.0	833.612	835.184	836.540	835.184	833.612	831.512	831.706
42.5	797.263	799.034	800.606	799.034	797.263	795.230	795.494
45.0	759.532	761.253	762.840	761.253	759.532	757.183	756.402
47.5	720.076	722.414	723.348	722.414	720.076	717.717	716.265
50.0	679.603	682.321	682.700	682.321	679.603	677.385	675.836
52.5	638.267	640.773	641.256	640.773	638.267	635.945	634.824
55.0	596.131	598.349	598.762	598.349	596.131	593.247	592.461
57.5	552.863	555.303	555.026	555.303	552.863	549.833	548.592
60.0	508.432	511.429	510.600	511.429	508.432	505.694	503.905
62.5	463.695	466.603	465.789	466.603	463.695	461.222	458.918
65.0	418.816	421.221	420.618	421.221	418.816	416.838	413.969
67.5	374.009	376.270	375.093	376.270	374.009	371.626	369.386
70.0	329.389	331.209	329.565	331.209	329.389	326.486	324.444
72.5	284.156	286.489	284.787	286.489	284.156	282.077	279.465
75.0	239.912	242.091	240.137	242.091	239.912	238.552	234.882
77.5	196.966	197.913	196.363	197.913	196.966	195.157	191.784
80.0	154.025	154.764	152.936	154.764	154.025	152.527	149.770

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.IES

CANDELA TABULATION - (Cont.)

82.5	112.040	112.767	111.037	112.767	112.040	110.935	109.065
85.0	71.580	72.533	71.049	72.533	71.580	70.942	69.371
87.5	33.294	34.366	33.061	34.366	33.294	33.074	31.729
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	416.60	N.A.	12.60
0-30	884.14	N.A.	26.70
0-40	1447.75	N.A.	43.70
0-60	2565.87	N.A.	77.40
0-80	3233.37	N.A.	97.60
0-90	3312.99	N.A.	100.00
10-90	3205.12	N.A.	96.70
20-40	1031.15	N.A.	31.10
20-50	1616.82	N.A.	48.80
40-70	1532.37	N.A.	46.30
60-80	667.50	N.A.	20.10
70-80	253.25	N.A.	7.60
80-90	79.62	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	3312.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.87
10-20	308.74
20-30	467.54
30-40	563.61
40-50	585.68
50-60	532.45
60-70	414.25
70-80	253.25
80-90	79.62
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

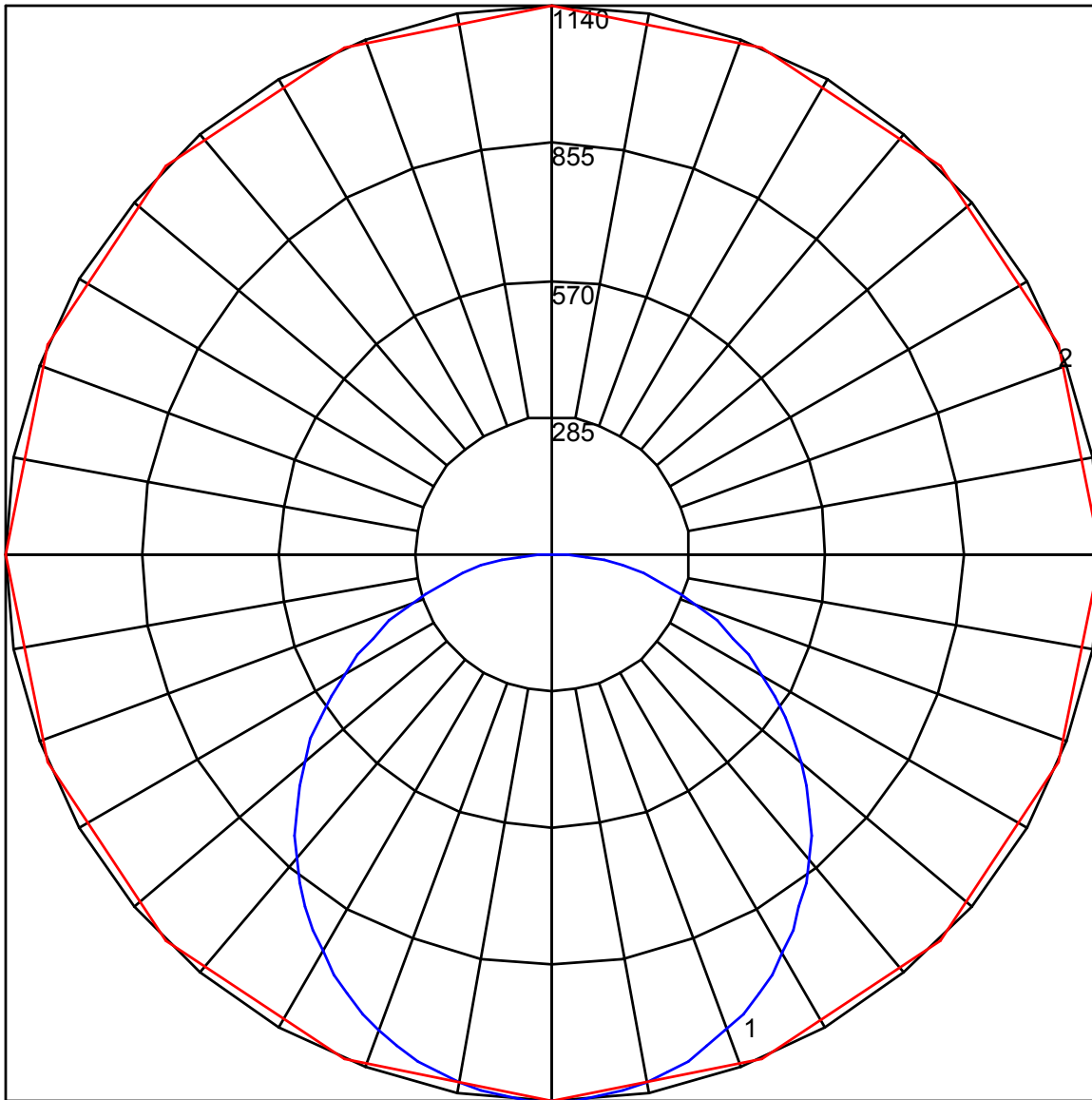
IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUAD-20-LED35-MO-D1.IES

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	72	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	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	31	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1140.383 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.)