



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-22-LED35-LO-D1-PATTERN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-20-LED35-LO-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	1701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	28
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	589	592	594
55	569	572	575
65	539	546	548
75	500	510	511
85	438	452	449

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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	585.602	585.602	585.602	585.602	585.602	585.602	585.602	585.602	585.602	585.602
2.5	585.016	585.038	584.867	584.812	585.004	584.812	584.867	585.038	585.016	585.038
5.0	582.908	583.003	582.983	582.746	583.055	582.746	582.983	583.003	582.908	583.003
7.5	579.556	579.620	579.637	579.581	579.777	579.581	579.637	579.620	579.556	579.620
10.0	574.815	574.875	574.936	574.855	575.083	574.855	574.936	574.875	574.815	574.875
12.5	568.813	568.832	568.879	569.015	569.250	569.015	568.879	568.832	568.813	568.832
15.0	561.582	561.568	561.785	561.909	562.263	561.909	561.785	561.568	561.582	561.568
17.5	553.042	553.142	553.352	553.578	553.933	553.578	553.352	553.142	553.042	553.142
20.0	543.321	543.520	543.904	543.905	544.520	543.905	543.904	543.520	543.321	543.520
22.5	532.497	532.540	532.872	533.173	533.703	533.173	532.872	532.540	532.497	532.540
25.0	520.360	520.540	520.925	521.393	521.882	521.393	520.925	520.540	520.360	520.540
27.5	507.288	507.416	507.831	508.336	509.074	508.336	507.831	507.416	507.288	507.416
30.0	492.541	493.323	493.696	494.201	495.198	494.201	493.696	493.323	492.541	493.323
32.5	477.098	478.146	478.676	479.281	480.268	479.281	478.676	478.146	477.098	478.146
35.0	461.082	461.852	462.741	463.385	464.193	463.385	462.741	461.852	461.082	461.852
37.5	444.555	444.790	445.707	446.476	447.223	446.476	445.707	444.790	444.555	444.790
40.0	427.092	426.993	428.071	428.878	429.575	428.878	428.071	426.993	427.092	426.993
42.5	408.497	408.361	409.405	410.314	411.122	410.314	409.405	408.361	408.497	408.361
45.0	388.423	388.824	390.030	390.914	391.729	390.914	390.030	388.824	388.423	388.824
47.5	367.811	368.557	369.768	370.969	371.449	370.969	369.768	368.557	367.811	368.557
50.0	347.051	347.846	348.985	350.381	350.576	350.381	348.985	347.846	347.051	347.846
52.5	325.991	326.566	327.759	329.046	329.294	329.046	327.759	326.566	325.991	326.566
55.0	304.237	304.640	306.121	307.260	307.472	307.260	306.121	304.640	304.237	304.640
57.5	281.709	282.347	283.903	285.156	285.013	285.156	283.903	282.347	281.709	282.347
60.0	258.762	259.681	261.087	262.626	262.200	262.626	261.087	259.681	258.762	259.681
62.5	235.661	236.844	238.114	239.607	239.189	239.607	238.114	236.844	235.661	236.844
65.0	212.579	214.052	215.068	216.303	215.993	216.303	215.068	214.052	212.579	214.052
67.5	189.685	190.835	192.059	193.220	192.615	193.220	192.059	190.835	189.685	190.835
70.0	166.606	167.655	169.146	170.080	169.236	170.080	169.146	167.655	166.606	167.655
72.5	143.509	144.850	145.918	147.116	146.242	147.116	145.918	144.850	143.509	144.850
75.0	120.615	122.500	123.198	124.317	123.314	124.317	123.198	122.500	120.615	122.500
77.5	98.484	100.215	101.145	101.631	100.835	101.631	101.145	100.215	98.484	100.215
80.0	76.909	78.325	79.094	79.473	78.535	79.473	79.094	78.325	76.909	78.325
82.5	56.006	56.967	57.534	57.907	57.019	57.907	57.534	56.967	56.006	56.967
85.0	35.623	36.430	36.757	37.247	36.485	37.247	36.757	36.430	35.623	36.430
87.5	16.293	16.984	17.097	17.647	16.977	17.647	17.097	16.984	16.293	16.984
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	585.602	585.602	585.602	585.602	585.602	585.602	585.602
2.5	584.867	584.812	585.004	584.812	584.867	585.038	585.016
5.0	582.983	582.746	583.055	582.746	582.983	583.003	582.908
7.5	579.637	579.581	579.777	579.581	579.637	579.620	579.556
10.0	574.936	574.855	575.083	574.855	574.936	574.875	574.815
12.5	568.879	569.015	569.250	569.015	568.879	568.832	568.813
15.0	561.785	561.909	562.263	561.909	561.785	561.568	561.582
17.5	553.352	553.578	553.933	553.578	553.352	553.142	553.042
20.0	543.904	543.905	544.520	543.905	543.904	543.520	543.321
22.5	532.872	533.173	533.703	533.173	532.872	532.540	532.497
25.0	520.925	521.393	521.882	521.393	520.925	520.540	520.360
27.5	507.831	508.336	509.074	508.336	507.831	507.416	507.288
30.0	493.696	494.201	495.198	494.201	493.696	493.323	492.541
32.5	478.676	479.281	480.268	479.281	478.676	478.146	477.098
35.0	462.741	463.385	464.193	463.385	462.741	461.852	461.082
37.5	445.707	446.476	447.223	446.476	445.707	444.790	444.555
40.0	428.071	428.878	429.575	428.878	428.071	426.993	427.092
42.5	409.405	410.314	411.122	410.314	409.405	408.361	408.497
45.0	390.030	390.914	391.729	390.914	390.030	388.824	388.423
47.5	369.768	370.969	371.449	370.969	369.768	368.557	367.811
50.0	348.985	350.381	350.576	350.381	348.985	347.846	347.051
52.5	327.759	329.046	329.294	329.046	327.759	326.566	325.991
55.0	306.121	307.260	307.472	307.260	306.121	304.640	304.237
57.5	283.903	285.156	285.013	285.156	283.903	282.347	281.709
60.0	261.087	262.626	262.200	262.626	261.087	259.681	258.762
62.5	238.114	239.607	239.189	239.607	238.114	236.844	235.661
65.0	215.068	216.303	215.993	216.303	215.068	214.052	212.579
67.5	192.059	193.220	192.615	193.220	192.059	190.835	189.685
70.0	169.146	170.080	169.236	170.080	169.146	167.655	166.606
72.5	145.918	147.116	146.242	147.116	145.918	144.850	143.509
75.0	123.198	124.317	123.314	124.317	123.198	122.500	120.615
77.5	101.145	101.631	100.835	101.631	101.145	100.215	98.484
80.0	79.094	79.473	78.535	79.473	79.094	78.325	76.909

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CANDELA TABULATION - (Cont.)

82.5	57.534	57.907	57.019	57.907	57.534	56.967	56.006
85.0	36.757	37.247	36.485	37.247	36.757	36.430	35.623
87.5	17.097	17.647	16.977	17.647	17.097	16.984	16.293
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	213.93	N.A.	12.60
0-30	454.02	N.A.	26.70
0-40	743.44	N.A.	43.70
0-60	1317.61	N.A.	77.40
0-80	1660.38	N.A.	97.60
0-90	1701.26	N.A.	100.00
10-90	1645.87	N.A.	96.70
20-40	529.51	N.A.	31.10
20-50	830.26	N.A.	48.80
40-70	786.89	N.A.	46.30
60-80	342.77	N.A.	20.10
70-80	130.05	N.A.	7.60
80-90	40.88	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	1701.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.39
10-20	158.54
20-30	240.09
30-40	289.42
40-50	300.75
50-60	273.42
60-70	212.72
70-80	130.05
80-90	40.88
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

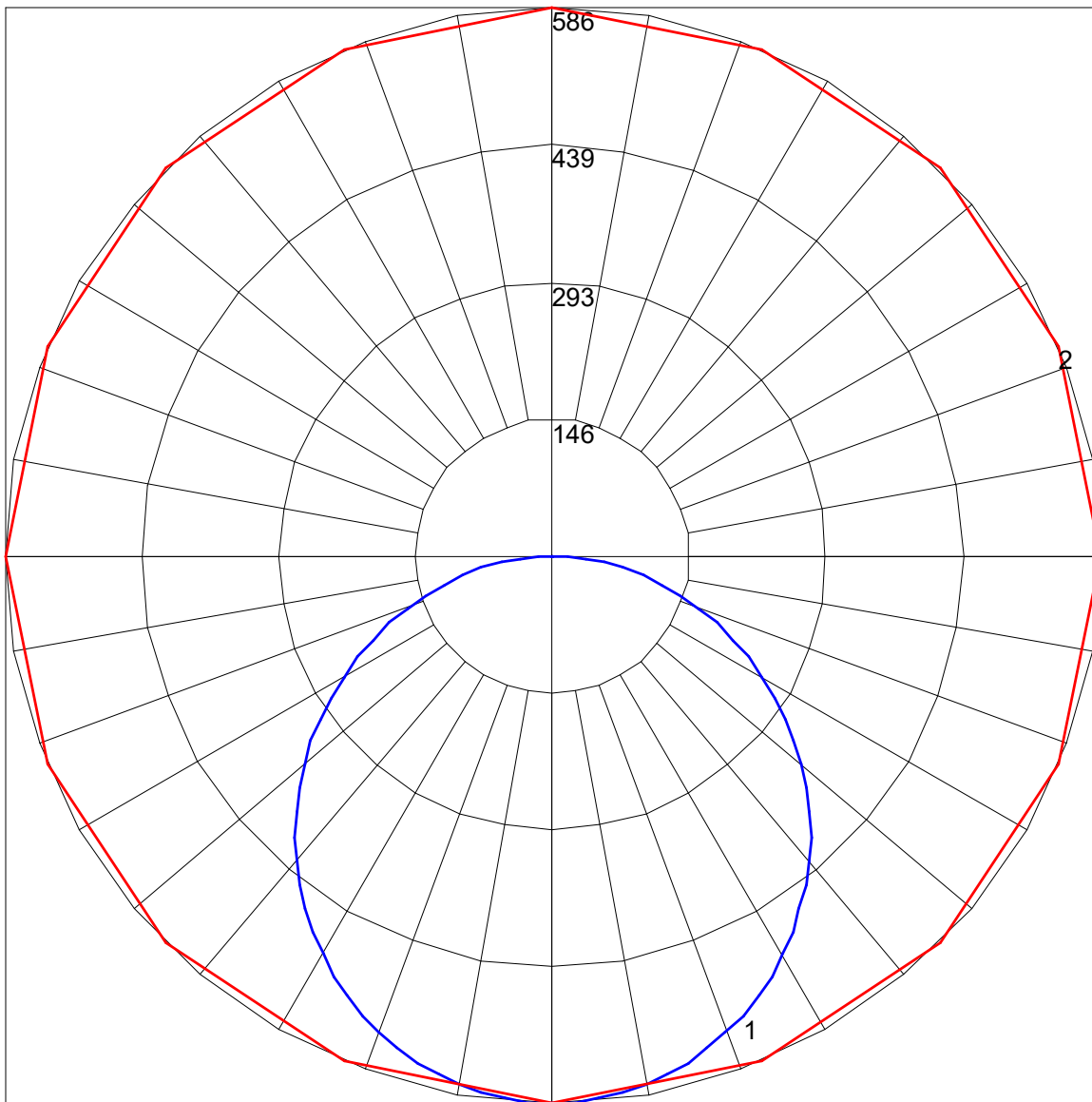
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	77	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 = 585.602 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.)