



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-20-LED35-LO-D1.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	2382
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	825	828	832
55	796	801	805
65	755	764	767
75	700	715	715
85	614	633	628

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	819.843	819.843	819.843	819.843	819.843	819.843	819.843	819.843	819.843	819.843
2.5	819.022	819.054	818.813	818.737	819.006	818.737	818.813	819.054	819.022	819.054
5.0	816.071	816.204	816.176	815.845	816.277	815.845	816.176	816.204	816.071	816.204
7.5	811.378	811.468	811.492	811.413	811.688	811.413	811.492	811.468	811.378	811.468
10.0	804.740	804.826	804.911	804.798	805.117	804.798	804.911	804.826	804.740	804.826
12.5	796.339	796.365	796.431	796.621	796.951	796.621	796.431	796.365	796.339	796.365
15.0	786.215	786.195	786.499	786.672	787.168	786.672	786.499	786.195	786.215	786.195
17.5	774.258	774.399	774.693	775.010	775.506	775.010	774.693	774.399	774.258	774.399
20.0	760.650	760.928	761.466	761.468	762.328	761.468	761.466	760.928	760.650	760.928
22.5	745.496	745.555	746.021	746.443	747.185	746.443	746.021	745.555	745.496	745.555
25.0	728.504	728.756	729.295	729.951	730.634	729.951	729.295	728.756	728.504	728.756
27.5	710.203	710.382	710.963	711.671	712.703	711.671	710.963	710.382	710.203	710.382
30.0	689.557	690.652	691.174	691.882	693.277	691.882	691.174	690.652	689.557	690.652
32.5	667.937	669.405	670.146	670.993	672.375	670.993	670.146	669.405	667.937	669.405
35.0	645.516	646.593	647.838	648.739	649.870	648.739	647.838	646.593	645.516	646.593
37.5	622.377	622.706	623.989	625.067	626.112	625.067	623.989	622.706	622.377	622.706
40.0	597.929	597.790	599.299	600.430	601.405	600.430	599.299	597.790	597.929	597.790
42.5	571.896	571.706	573.167	574.440	575.571	574.440	573.167	571.706	571.896	571.706
45.0	543.792	544.353	546.042	547.279	548.420	547.279	546.042	544.353	543.792	544.353
47.5	514.936	515.980	517.676	519.357	520.029	519.357	517.676	515.980	514.936	515.980
50.0	485.872	486.985	488.579	490.533	490.806	490.533	488.579	486.985	485.872	486.985
52.5	456.387	457.193	458.862	460.664	461.011	460.664	458.862	457.193	456.387	457.193
55.0	425.931	426.496	428.570	430.165	430.461	430.165	428.570	426.496	425.931	426.496
57.5	394.393	395.285	397.464	399.218	399.019	399.218	397.464	395.285	394.393	395.285
60.0	362.267	363.553	365.521	367.676	367.080	367.676	365.521	363.553	362.267	363.553
62.5	329.925	331.581	333.359	335.450	334.865	335.450	333.359	331.581	329.925	331.581
65.0	297.610	299.673	301.095	302.824	302.390	302.824	301.095	299.673	297.610	299.673
67.5	265.558	267.169	268.882	270.507	269.661	270.507	268.882	267.169	265.558	267.169
70.0	233.249	234.717	236.804	238.113	236.930	238.113	236.804	234.717	233.249	234.717
72.5	200.912	202.790	204.285	205.962	204.739	205.962	204.285	202.790	200.912	202.790
75.0	168.861	171.500	172.477	174.044	172.639	174.044	172.477	171.500	168.861	171.500
77.5	137.877	140.302	141.602	142.283	141.169	142.283	141.602	140.302	137.877	140.302
80.0	107.673	109.655	110.732	111.262	109.948	111.262	110.732	109.655	107.673	109.655
82.5	78.409	79.753	80.547	81.070	79.827	81.070	80.547	79.753	78.409	79.753
85.0	49.872	51.002	51.460	52.145	51.079	52.145	51.460	51.002	49.872	51.002
87.5	22.811	23.778	23.936	24.706	23.768	24.706	23.936	23.778	22.811	23.778
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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	819.843	819.843	819.843	819.843	819.843	819.843	819.843
2.5	818.813	818.737	819.006	818.737	818.813	819.054	819.022
5.0	816.176	815.845	816.277	815.845	816.176	816.204	816.071
7.5	811.492	811.413	811.688	811.413	811.492	811.468	811.378
10.0	804.911	804.798	805.117	804.798	804.911	804.826	804.740
12.5	796.431	796.621	796.951	796.621	796.431	796.365	796.339
15.0	786.499	786.672	787.168	786.672	786.499	786.195	786.215
17.5	774.693	775.010	775.506	775.010	774.693	774.399	774.258
20.0	761.466	761.468	762.328	761.468	761.466	760.928	760.650
22.5	746.021	746.443	747.185	746.443	746.021	745.555	745.496
25.0	729.295	729.951	730.634	729.951	729.295	728.756	728.504
27.5	710.963	711.671	712.703	711.671	710.963	710.382	710.203
30.0	691.174	691.882	693.277	691.882	691.174	690.652	689.557
32.5	670.146	670.993	672.375	670.993	670.146	669.405	667.937
35.0	647.838	648.739	649.870	648.739	647.838	646.593	645.516
37.5	623.989	625.067	626.112	625.067	623.989	622.706	622.377
40.0	599.299	600.430	601.405	600.430	599.299	597.790	597.929
42.5	573.167	574.440	575.571	574.440	573.167	571.706	571.896
45.0	546.042	547.279	548.420	547.279	546.042	544.353	543.792
47.5	517.676	519.357	520.029	519.357	517.676	515.980	514.936
50.0	488.579	490.533	490.806	490.533	488.579	486.985	485.872
52.5	458.862	460.664	461.011	460.664	458.862	457.193	456.387
55.0	428.570	430.165	430.461	430.165	428.570	426.496	425.931
57.5	397.464	399.218	399.019	399.218	397.464	395.285	394.393
60.0	365.521	367.676	367.080	367.676	365.521	363.553	362.267
62.5	333.359	335.450	334.865	335.450	333.359	331.581	329.925
65.0	301.095	302.824	302.390	302.824	301.095	299.673	297.610
67.5	268.882	270.507	269.661	270.507	268.882	267.169	265.558
70.0	236.804	238.113	236.930	238.113	236.804	234.717	233.249
72.5	204.285	205.962	204.739	205.962	204.285	202.790	200.912
75.0	172.477	174.044	172.639	174.044	172.477	171.500	168.861
77.5	141.602	142.283	141.169	142.283	141.602	140.302	137.877
80.0	110.732	111.262	109.948	111.262	110.732	109.655	107.673

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CANDELA TABULATION - (Cont.)

82.5	80.547	81.070	79.827	81.070	80.547	79.753	78.409
85.0	51.460	52.145	51.079	52.145	51.460	51.002	49.872
87.5	23.936	24.706	23.768	24.706	23.936	23.778	22.811
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	299.50	N.A.	12.60
0-30	635.62	N.A.	26.70
0-40	1040.81	N.A.	43.70
0-60	1844.65	N.A.	77.40
0-80	2324.53	N.A.	97.60
0-90	2381.77	N.A.	100.00
10-90	2304.22	N.A.	96.70
20-40	741.31	N.A.	31.10
20-50	1162.36	N.A.	48.80
40-70	1101.65	N.A.	46.30
60-80	479.88	N.A.	20.10
70-80	182.06	N.A.	7.60
80-90	57.24	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	2381.77	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.55
10-20	221.96
20-30	336.12
30-40	405.19
40-50	421.05
50-60	382.79
60-70	297.81
70-80	182.06
80-90	57.24
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

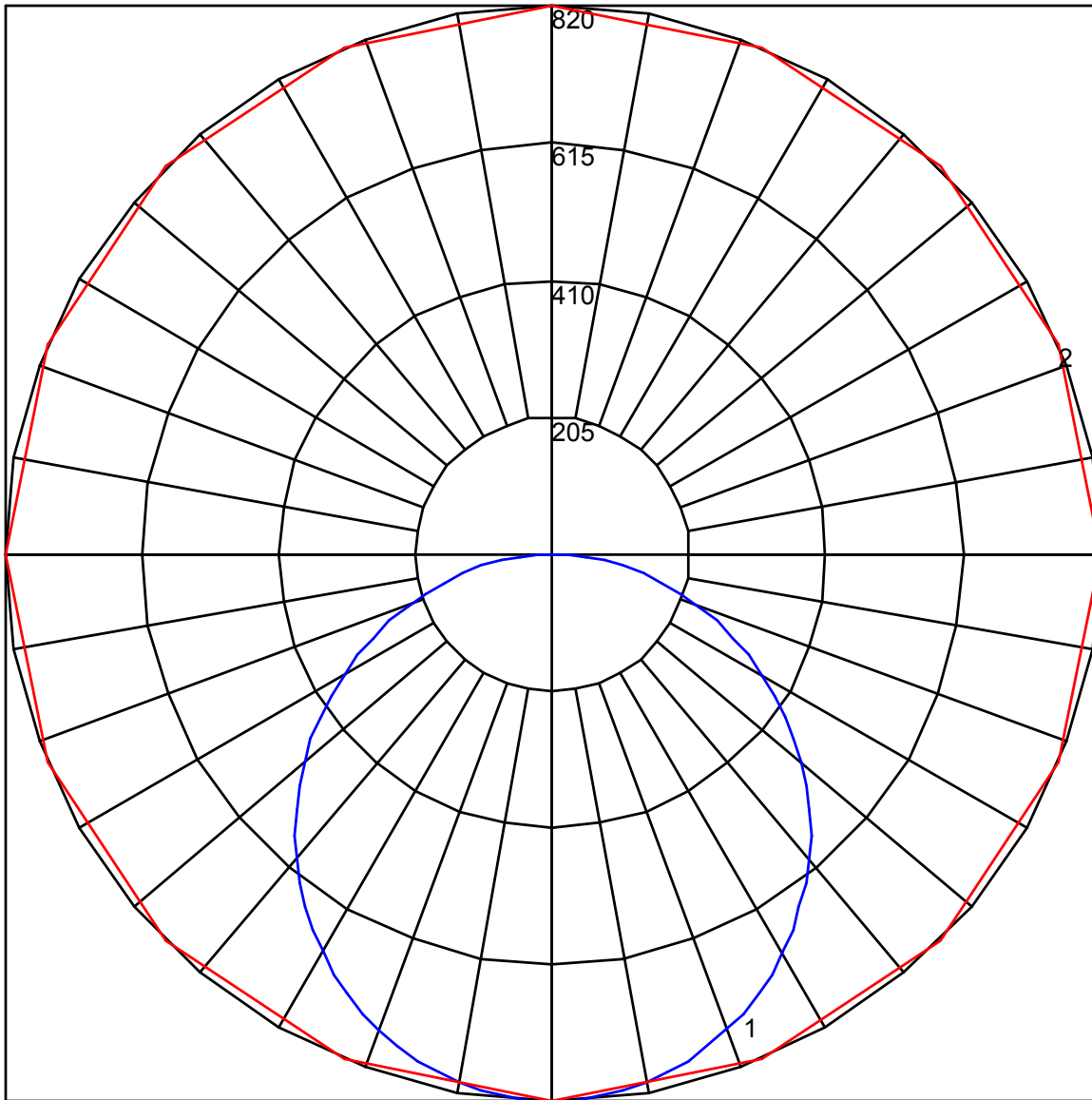
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 819.843 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.)