



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-30-LED35-SO-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-30-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	11461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	135
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	3969	3985	4002
55	3832	3856	3873
65	3634	3677	3692
75	3367	3439	3442
85	2953	3047	3024

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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	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107
2.5	3941.158	3941.312	3940.154	3939.789	3941.082	3939.789	3940.154	3941.312	3941.158	3941.312
5.0	3926.957	3927.597	3927.462	3925.869	3927.949	3925.869	3927.462	3927.597	3926.957	3927.597
7.5	3904.378	3904.806	3904.922	3904.544	3905.869	3904.544	3904.922	3904.806	3904.378	3904.806
10.0	3872.435	3872.845	3873.254	3872.710	3874.246	3872.710	3873.254	3872.845	3872.435	3872.845
12.5	3832.006	3832.134	3832.448	3833.363	3834.950	3833.363	3832.448	3832.134	3832.006	3832.134
15.0	3783.290	3783.194	3784.659	3785.491	3787.878	3785.491	3784.659	3783.194	3783.290	3783.194
17.5	3725.754	3726.432	3727.846	3729.370	3731.757	3729.370	3727.846	3726.432	3725.754	3726.432
20.0	3660.269	3661.606	3664.198	3664.205	3668.346	3664.205	3664.198	3661.606	3660.269	3661.606
22.5	3587.347	3587.635	3589.875	3591.904	3595.475	3591.904	3589.875	3587.635	3587.347	3587.635
25.0	3505.581	3506.797	3509.389	3512.544	3515.834	3512.544	3509.389	3506.797	3505.581	3506.797
27.5	3417.517	3418.381	3421.178	3424.582	3429.549	3424.582	3421.178	3418.381	3417.517	3418.381
30.0	3318.170	3323.437	3325.952	3329.357	3336.070	3329.357	3325.952	3323.437	3318.170	3323.437
32.5	3214.131	3221.197	3224.762	3228.838	3235.488	3228.838	3224.762	3221.197	3214.131	3221.197
35.0	3106.240	3111.424	3117.414	3121.754	3127.194	3121.754	3117.414	3111.424	3106.240	3111.424
37.5	2994.899	2996.480	3002.656	3007.840	3012.870	3007.840	3002.656	2996.480	2994.899	2996.480
40.0	2877.254	2876.582	2883.846	2889.286	2893.978	2889.286	2883.846	2876.582	2877.254	2876.582
42.5	2751.981	2751.066	2758.099	2764.224	2769.664	2764.224	2758.099	2751.066	2751.981	2751.066
45.0	2616.742	2619.443	2627.571	2633.523	2639.014	2633.523	2627.571	2619.443	2616.742	2619.443
47.5	2477.888	2482.912	2491.072	2499.162	2502.394	2499.162	2491.072	2482.912	2477.888	2482.912
50.0	2338.029	2343.386	2351.059	2360.461	2361.773	2360.461	2351.059	2343.386	2338.029	2343.386
52.5	2196.147	2200.026	2208.058	2216.730	2218.400	2216.730	2208.058	2200.026	2196.147	2200.026
55.0	2049.594	2052.314	2062.291	2069.965	2071.392	2069.965	2062.291	2052.314	2049.594	2052.314
57.5	1897.830	1902.125	1912.608	1921.050	1920.090	1921.050	1912.608	1902.125	1897.830	1902.125
60.0	1743.238	1749.427	1758.899	1769.267	1766.400	1769.267	1758.899	1749.427	1743.238	1749.427
62.5	1587.610	1595.578	1604.134	1614.195	1611.379	1614.195	1604.134	1595.578	1587.610	1595.578
65.0	1432.109	1442.035	1448.877	1457.197	1455.110	1457.197	1448.877	1442.035	1432.109	1442.035
67.5	1277.875	1285.626	1293.869	1301.690	1297.619	1301.690	1293.869	1285.626	1277.875	1285.626
70.0	1122.400	1129.466	1139.507	1145.805	1140.115	1145.805	1139.507	1129.466	1122.400	1129.466
72.5	966.797	975.834	983.027	991.098	985.210	991.098	983.027	975.834	966.797	975.834
75.0	812.563	825.261	829.965	837.504	830.746	837.504	829.965	825.261	812.563	825.261
77.5	663.469	675.136	681.395	684.672	679.309	684.672	681.395	675.136	663.469	675.136
80.0	518.125	527.661	532.845	535.398	529.075	535.398	532.845	527.661	518.125	527.661
82.5	377.306	383.776	387.597	390.112	384.128	390.112	387.597	383.776	377.306	383.776
85.0	239.987	245.421	247.629	250.925	245.792	250.925	247.629	245.421	239.987	245.421
87.5	109.766	114.419	115.181	118.886	114.374	118.886	115.181	114.419	109.766	114.419
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**

	225.0	247.5	270.0	292.5	315.0	337.5	360.0
0.0	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107	3945.107
2.5	3940.154	3939.789	3941.082	3939.789	3940.154	3941.312	3941.158
5.0	3927.462	3925.869	3927.949	3925.869	3927.462	3927.597	3926.957
7.5	3904.922	3904.544	3905.869	3904.544	3904.922	3904.806	3904.378
10.0	3873.254	3872.710	3874.246	3872.710	3873.254	3872.845	3872.435
12.5	3832.448	3833.363	3834.950	3833.363	3832.448	3832.134	3832.006
15.0	3784.659	3785.491	3787.878	3785.491	3784.659	3783.194	3783.290
17.5	3727.846	3729.370	3731.757	3729.370	3727.846	3726.432	3725.754
20.0	3664.198	3664.205	3668.346	3664.205	3664.198	3661.606	3660.269
22.5	3589.875	3591.904	3595.475	3591.904	3589.875	3587.635	3587.347
25.0	3509.389	3512.544	3515.834	3512.544	3509.389	3506.797	3505.581
27.5	3421.178	3424.582	3429.549	3424.582	3421.178	3418.381	3417.517
30.0	3325.952	3329.357	3336.070	3329.357	3325.952	3323.437	3318.170
32.5	3224.762	3228.838	3235.488	3228.838	3224.762	3221.197	3214.131
35.0	3117.414	3121.754	3127.194	3121.754	3117.414	3111.424	3106.240
37.5	3002.656	3007.840	3012.870	3007.840	3002.656	2996.480	2994.899
40.0	2883.846	2889.286	2893.978	2889.286	2883.846	2876.582	2877.254
42.5	2758.099	2764.224	2769.664	2764.224	2758.099	2751.066	2751.981
45.0	2627.571	2633.523	2639.014	2633.523	2627.571	2619.443	2616.742
47.5	2491.072	2499.162	2502.394	2499.162	2491.072	2482.912	2477.888
50.0	2351.059	2360.461	2361.773	2360.461	2351.059	2343.386	2338.029
52.5	2208.058	2216.730	2218.400	2216.730	2208.058	2200.026	2196.147
55.0	2062.291	2069.965	2071.392	2069.965	2062.291	2052.314	2049.594
57.5	1912.608	1921.050	1920.090	1921.050	1912.608	1902.125	1897.830
60.0	1758.899	1769.267	1766.400	1769.267	1758.899	1749.427	1743.238
62.5	1604.134	1614.195	1611.379	1614.195	1604.134	1595.578	1587.610
65.0	1448.877	1457.197	1455.110	1457.197	1448.877	1442.035	1432.109
67.5	1293.869	1301.690	1297.619	1301.690	1293.869	1285.626	1277.875
70.0	1139.507	1145.805	1140.115	1145.805	1139.507	1129.466	1122.400
72.5	983.027	991.098	985.210	991.098	983.027	975.834	966.797
75.0	829.965	837.504	830.746	837.504	829.965	825.261	812.563
77.5	681.395	684.672	679.309	684.672	681.395	675.136	663.469
80.0	532.845	535.398	529.075	535.398	532.845	527.661	518.125

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CANDELA TABULATION - (Cont.)

82.5	387.597	390.112	384.128	390.112	387.597	383.776	377.306
85.0	247.629	250.925	245.792	250.925	247.629	245.421	239.987
87.5	115.181	118.886	114.374	118.886	115.181	114.419	109.766
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	1441.21	N.A.	12.60
0-30	3058.65	N.A.	26.70
0-40	5008.43	N.A.	43.70
0-60	8876.52	N.A.	77.40
0-80	11185.71	N.A.	97.60
0-90	11461.14	N.A.	100.00
10-90	11087.98	N.A.	96.70
20-40	3567.21	N.A.	31.10
20-50	5593.33	N.A.	48.80
40-70	5301.18	N.A.	46.30
60-80	2309.19	N.A.	20.10
70-80	876.10	N.A.	7.60
80-90	275.43	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	11461.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	373.16
10-20	1068.06
20-30	1617.43
30-40	1949.78
40-50	2026.12
50-60	1841.98
60-70	1433.09
70-80	876.10
80-90	275.43
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

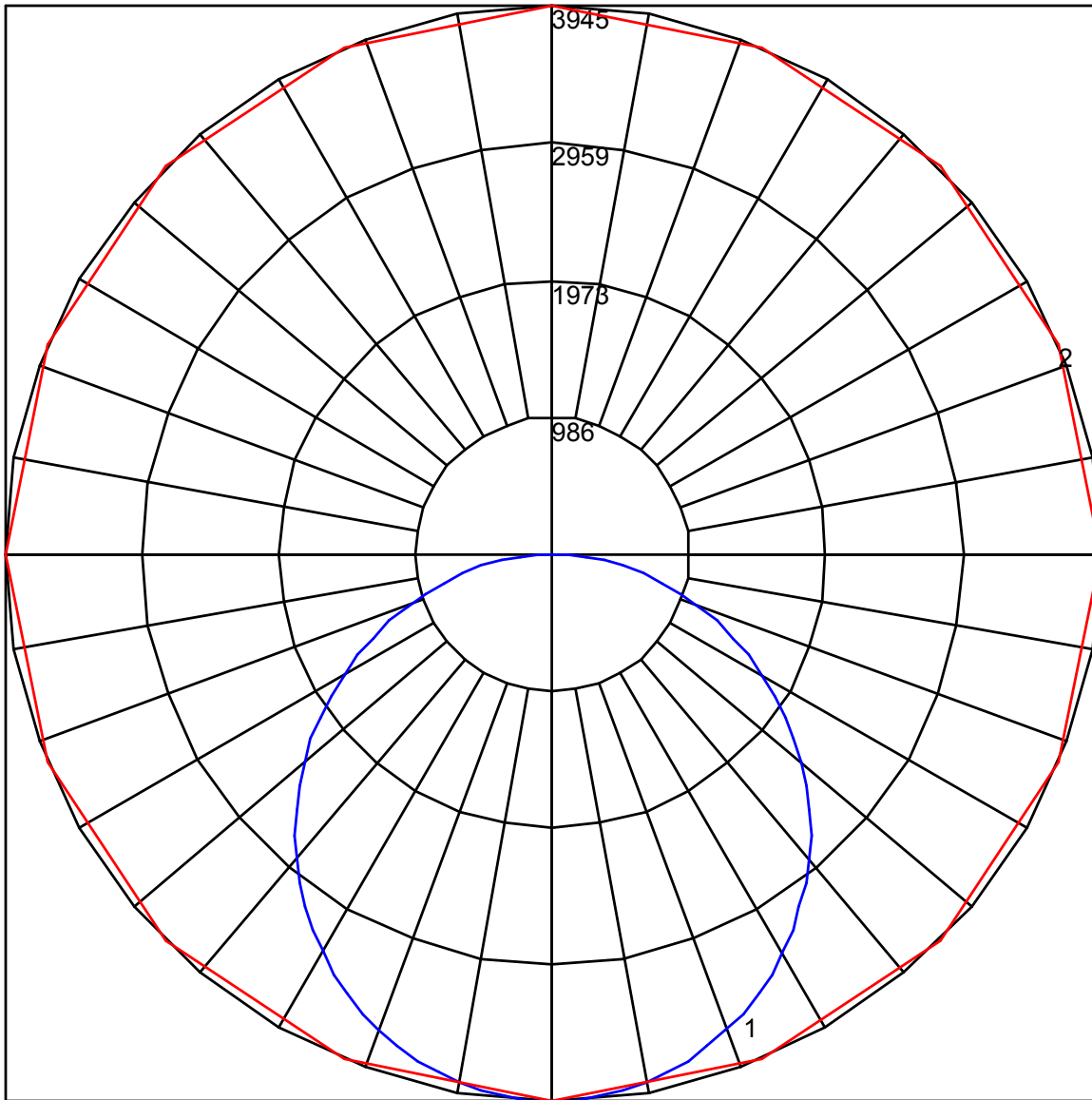
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3945.107 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.)