



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-30-LED35-HO-D1-PATTERNS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-30-LED35-HO-D1
 [TESTLAB] Intertek
 [ISSUE DATE] March 13, 2017
 [MANUFACTURE] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	218.3
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	4341	4359	4378
55	4191	4217	4236
65	3975	4021	4039
75	3682	3761	3765
85	3230	3333	3308

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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	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961
2.5	4310.642	4310.810	4309.543	4309.144	4310.558	4309.144	4309.543	4310.810	4310.642	4310.810
5.0	4295.109	4295.809	4295.662	4293.919	4296.194	4293.919	4295.662	4295.809	4295.109	4295.809
7.5	4270.413	4270.882	4271.008	4270.595	4272.044	4270.595	4271.008	4270.882	4270.413	4270.882
10.0	4235.476	4235.924	4236.372	4235.777	4237.457	4235.777	4236.372	4235.924	4235.476	4235.924
12.5	4191.257	4191.397	4191.740	4192.741	4194.477	4192.741	4191.740	4191.397	4191.257	4191.397
15.0	4137.973	4137.868	4139.471	4140.381	4142.992	4140.381	4139.471	4137.868	4137.973	4137.868
17.5	4075.043	4075.785	4077.332	4078.998	4081.609	4078.998	4077.332	4075.785	4075.043	4075.785
20.0	4003.419	4004.882	4007.717	4007.724	4012.253	4007.724	4007.717	4004.882	4003.419	4004.882
22.5	3923.661	3923.976	3926.426	3928.645	3932.551	3928.645	3926.426	3923.976	3923.661	3923.976
25.0	3834.229	3835.559	3838.394	3841.845	3845.443	3841.845	3838.394	3835.559	3834.229	3835.559
27.5	3737.909	3738.854	3741.913	3745.637	3751.069	3745.637	3741.913	3738.854	3737.909	3738.854
30.0	3629.248	3635.009	3637.760	3641.484	3648.827	3641.484	3637.760	3635.009	3629.248	3635.009
32.5	3515.456	3523.184	3527.083	3531.542	3538.815	3531.542	3527.083	3523.184	3515.456	3523.184
35.0	3397.450	3403.120	3409.672	3414.418	3420.368	3414.418	3409.672	3403.120	3397.450	3403.120
37.5	3275.671	3277.400	3284.155	3289.825	3295.327	3289.825	3284.155	3277.400	3275.671	3277.400
40.0	3146.997	3146.262	3154.207	3160.157	3165.288	3160.157	3154.207	3146.262	3146.997	3146.262
42.5	3009.979	3008.978	3016.671	3023.370	3029.320	3023.370	3016.671	3008.978	3009.979	3008.978
45.0	2862.062	2865.016	2873.906	2880.416	2886.422	2880.416	2873.906	2865.016	2862.062	2865.016
47.5	2710.190	2715.685	2724.610	2733.458	2736.993	2733.458	2724.610	2715.685	2710.190	2715.685
50.0	2557.219	2563.078	2571.471	2581.754	2583.189	2581.754	2571.471	2563.078	2557.219	2563.078
52.5	2402.036	2406.278	2415.063	2424.548	2426.375	2424.548	2415.063	2406.278	2402.036	2406.278
55.0	2241.743	2244.718	2255.631	2264.024	2265.585	2264.024	2255.631	2244.718	2241.743	2244.718
57.5	2075.752	2080.449	2091.915	2101.148	2100.098	2101.148	2091.915	2080.449	2075.752	2080.449
60.0	1906.667	1913.436	1923.796	1935.136	1932.000	1935.136	1923.796	1913.436	1906.667	1913.436
62.5	1736.448	1745.163	1754.522	1765.526	1762.446	1765.526	1754.522	1745.163	1736.448	1745.163
65.0	1566.369	1577.226	1584.709	1593.809	1591.527	1593.809	1584.709	1577.226	1566.369	1577.226
67.5	1397.676	1406.153	1415.169	1423.723	1419.271	1423.723	1415.169	1406.153	1397.676	1406.153
70.0	1227.625	1235.353	1246.336	1253.224	1247.001	1253.224	1246.336	1235.353	1227.625	1235.353
72.5	1057.434	1067.318	1075.186	1084.013	1077.573	1084.013	1075.186	1067.318	1057.434	1067.318
75.0	888.741	902.629	907.774	916.020	908.628	916.020	907.774	902.629	888.741	902.629
77.5	725.669	738.430	745.276	748.860	742.994	748.860	745.276	738.430	725.669	738.430
80.0	566.699	577.129	582.799	585.592	578.676	585.592	582.799	577.129	566.699	577.129
82.5	412.678	419.755	423.934	426.685	420.140	426.685	423.934	419.755	412.678	419.755
85.0	262.486	268.429	270.844	274.449	268.835	274.449	270.844	268.429	262.486	268.429
87.5	120.057	125.146	125.979	130.032	125.097	130.032	125.979	125.146	120.057	125.146
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	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961	4314.961
2.5	4309.543	4309.144	4310.558	4309.144	4309.543	4310.810	4310.642
5.0	4295.662	4293.919	4296.194	4293.919	4295.662	4295.809	4295.109
7.5	4271.008	4270.595	4272.044	4270.595	4271.008	4270.882	4270.413
10.0	4236.372	4235.777	4237.457	4235.777	4236.372	4235.924	4235.476
12.5	4191.740	4192.741	4194.477	4192.741	4191.740	4191.397	4191.257
15.0	4139.471	4140.381	4142.992	4140.381	4139.471	4137.868	4137.973
17.5	4077.332	4078.998	4081.609	4078.998	4077.332	4075.785	4075.043
20.0	4007.717	4007.724	4012.253	4007.724	4007.717	4004.882	4003.419
22.5	3926.426	3928.645	3932.551	3928.645	3926.426	3923.976	3923.661
25.0	3838.394	3841.845	3845.443	3841.845	3838.394	3835.559	3834.229
27.5	3741.913	3745.637	3751.069	3745.637	3741.913	3738.854	3737.909
30.0	3637.760	3641.484	3648.827	3641.484	3637.760	3635.009	3629.248
32.5	3527.083	3531.542	3538.815	3531.542	3527.083	3523.184	3515.456
35.0	3409.672	3414.418	3420.368	3414.418	3409.672	3403.120	3397.450
37.5	3284.155	3289.825	3295.327	3289.825	3284.155	3277.400	3275.671
40.0	3154.207	3160.157	3165.288	3160.157	3154.207	3146.262	3146.997
42.5	3016.671	3023.370	3029.320	3023.370	3016.671	3008.978	3009.979
45.0	2873.906	2880.416	2886.422	2880.416	2873.906	2865.016	2862.062
47.5	2724.610	2733.458	2736.993	2733.458	2724.610	2715.685	2710.190
50.0	2571.471	2581.754	2583.189	2581.754	2571.471	2563.078	2557.219
52.5	2415.063	2424.548	2426.375	2424.548	2415.063	2406.278	2402.036
55.0	2255.631	2264.024	2265.585	2264.024	2255.631	2244.718	2241.743
57.5	2091.915	2101.148	2100.098	2101.148	2091.915	2080.449	2075.752
60.0	1923.796	1935.136	1932.000	1935.136	1923.796	1913.436	1906.667
62.5	1754.522	1765.526	1762.446	1765.526	1754.522	1745.163	1736.448
65.0	1584.709	1593.809	1591.527	1593.809	1584.709	1577.226	1566.369
67.5	1415.169	1423.723	1419.271	1423.723	1415.169	1406.153	1397.676
70.0	1246.336	1253.224	1247.001	1253.224	1246.336	1235.353	1227.625
72.5	1075.186	1084.013	1077.573	1084.013	1075.186	1067.318	1057.434
75.0	907.774	916.020	908.628	916.020	907.774	902.629	888.741
77.5	745.276	748.860	742.994	748.860	745.276	738.430	725.669
80.0	582.799	585.592	578.676	585.592	582.799	577.129	566.699

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CANDELA TABULATION - (Cont.)

82.5	423.934	426.685	420.140	426.685	423.934	419.755	412.678
85.0	270.844	274.449	268.835	274.449	270.844	268.429	262.486
87.5	125.979	130.032	125.097	130.032	125.979	125.146	120.057
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	1576.33	N.A.	12.60
0-30	3345.39	N.A.	26.70
0-40	5477.97	N.A.	43.70
0-60	9708.69	N.A.	77.40
0-80	12234.37	N.A.	97.60
0-90	12535.62	N.A.	100.00
10-90	12127.48	N.A.	96.70
20-40	3901.64	N.A.	31.10
20-50	6117.71	N.A.	48.80
40-70	5798.17	N.A.	46.30
60-80	2525.67	N.A.	20.10
70-80	958.23	N.A.	7.60
80-90	301.25	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	12535.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	408.14
10-20	1168.19
20-30	1769.07
30-40	2132.57
40-50	2216.07
50-60	2014.66
60-70	1567.44
70-80	958.23
80-90	301.25
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

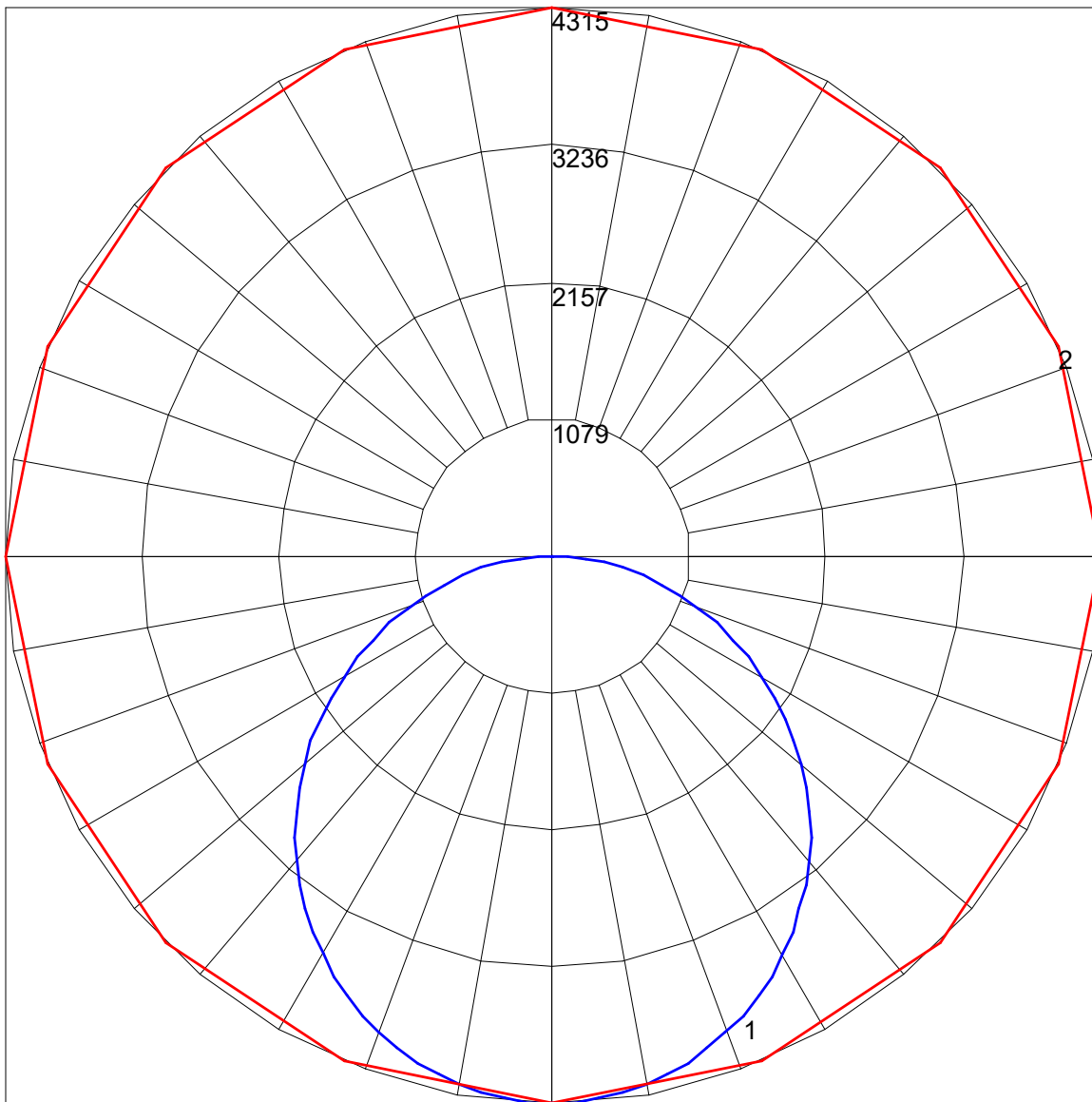
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	31	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 4314.961 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.)