



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-20-LED35-SO-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Quad-20-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	4835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	60
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	1674	1681	1688
55	1617	1627	1634
65	1533	1551	1558
75	1420	1451	1452
85	1246	1285	1276

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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	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342
2.5	1662.676	1662.741	1662.252	1662.098	1662.644	1662.098	1662.252	1662.741	1662.676	1662.741
5.0	1656.685	1656.955	1656.898	1656.226	1657.103	1656.226	1656.898	1656.955	1656.685	1656.955
7.5	1647.159	1647.340	1647.389	1647.230	1647.788	1647.230	1647.389	1647.340	1647.159	1647.340
10.0	1633.684	1633.856	1634.029	1633.800	1634.448	1633.800	1634.029	1633.856	1633.684	1633.856
12.5	1616.628	1616.682	1616.814	1617.200	1617.870	1617.200	1616.814	1616.682	1616.628	1616.682
15.0	1596.075	1596.035	1596.653	1597.004	1598.011	1597.004	1596.653	1596.035	1596.075	1596.035
17.5	1571.802	1572.089	1572.685	1573.328	1574.335	1573.328	1572.685	1572.089	1571.802	1572.089
20.0	1544.176	1544.740	1545.834	1545.836	1547.583	1545.836	1545.834	1544.740	1544.176	1544.740
22.5	1513.412	1513.534	1514.479	1515.335	1516.841	1515.335	1514.479	1513.534	1513.412	1513.534
25.0	1478.917	1479.430	1480.523	1481.855	1483.242	1481.855	1480.523	1479.430	1478.917	1479.430
27.5	1441.765	1442.129	1443.309	1444.746	1446.841	1444.746	1443.309	1442.129	1441.765	1442.129
30.0	1399.853	1402.075	1403.136	1404.572	1407.405	1404.572	1403.136	1402.075	1399.853	1402.075
32.5	1355.962	1358.942	1360.446	1362.166	1364.972	1362.166	1360.446	1358.942	1355.962	1358.942
35.0	1310.445	1312.632	1315.159	1316.990	1319.285	1316.990	1315.159	1312.632	1310.445	1312.632
37.5	1263.473	1264.140	1266.746	1268.933	1271.055	1268.933	1266.746	1264.140	1263.473	1264.140
40.0	1213.842	1213.558	1216.623	1218.918	1220.897	1218.918	1216.623	1213.558	1213.842	1213.558
42.5	1160.992	1160.606	1163.573	1166.157	1168.452	1166.157	1163.573	1160.606	1160.992	1160.606
45.0	1103.938	1105.078	1108.507	1111.018	1113.334	1111.018	1108.507	1105.078	1103.938	1105.078
47.5	1045.359	1047.479	1050.921	1054.334	1055.697	1054.334	1050.921	1047.479	1045.359	1047.479
50.0	986.356	988.616	991.853	995.819	996.373	995.819	991.853	988.616	986.356	988.616
52.5	926.500	928.136	931.524	935.183	935.888	935.183	931.524	928.136	926.500	928.136
55.0	864.672	865.820	870.029	873.266	873.869	873.266	870.029	865.820	864.672	865.820
57.5	800.647	802.459	806.882	810.443	810.038	810.443	806.882	802.459	800.647	802.459
60.0	735.429	738.040	742.036	746.410	745.200	746.410	742.036	738.040	735.429	738.040
62.5	669.773	673.134	676.744	680.989	679.801	680.989	676.744	673.134	669.773	673.134
65.0	604.171	608.359	611.245	614.755	613.875	614.755	611.245	608.359	604.171	608.359
67.5	539.104	542.373	545.851	549.150	547.433	549.150	545.851	542.373	539.104	542.373
70.0	473.513	476.493	480.730	483.386	480.986	483.386	480.730	476.493	473.513	476.493
72.5	407.867	411.680	414.715	418.119	415.635	418.119	414.715	411.680	407.867	411.680
75.0	342.800	348.157	350.141	353.322	350.471	353.322	350.141	348.157	342.800	348.157
77.5	279.901	284.823	287.464	288.846	286.583	288.846	287.464	284.823	279.901	284.823
80.0	218.584	222.607	224.794	225.871	223.204	225.871	224.794	222.607	218.584	222.607
82.5	159.176	161.906	163.517	164.579	162.054	164.579	163.517	161.906	159.176	161.906
85.0	101.245	103.537	104.468	105.859	103.694	105.859	104.468	103.537	101.245	103.537
87.5	46.308	48.271	48.592	50.155	48.252	50.155	48.592	48.271	46.308	48.271
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	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342	1664.342
2.5	1662.252	1662.098	1662.644	1662.098	1662.252	1662.741	1662.676
5.0	1656.898	1656.226	1657.103	1656.226	1656.898	1656.955	1656.685
7.5	1647.389	1647.230	1647.788	1647.230	1647.389	1647.340	1647.159
10.0	1634.029	1633.800	1634.448	1633.800	1634.029	1633.856	1633.684
12.5	1616.814	1617.200	1617.870	1617.200	1616.814	1616.682	1616.628
15.0	1596.653	1597.004	1598.011	1597.004	1596.653	1596.035	1596.075
17.5	1572.685	1573.328	1574.335	1573.328	1572.685	1572.089	1571.802
20.0	1545.834	1545.836	1547.583	1545.836	1545.834	1544.740	1544.176
22.5	1514.479	1515.335	1516.841	1515.335	1514.479	1513.534	1513.412
25.0	1480.523	1481.855	1483.242	1481.855	1480.523	1479.430	1478.917
27.5	1443.309	1444.746	1446.841	1444.746	1443.309	1442.129	1441.765
30.0	1403.136	1404.572	1407.405	1404.572	1403.136	1402.075	1399.853
32.5	1360.446	1362.166	1364.972	1362.166	1360.446	1358.942	1355.962
35.0	1315.159	1316.990	1319.285	1316.990	1315.159	1312.632	1310.445
37.5	1266.746	1268.933	1271.055	1268.933	1266.746	1264.140	1263.473
40.0	1216.623	1218.918	1220.897	1218.918	1216.623	1213.558	1213.842
42.5	1163.573	1166.157	1168.452	1166.157	1163.573	1160.606	1160.992
45.0	1108.507	1111.018	1113.334	1111.018	1108.507	1105.078	1103.938
47.5	1050.921	1054.334	1055.697	1054.334	1050.921	1047.479	1045.359
50.0	991.853	995.819	996.373	995.819	991.853	988.616	986.356
52.5	931.524	935.183	935.888	935.183	931.524	928.136	926.500
55.0	870.029	873.266	873.869	873.266	870.029	865.820	864.672
57.5	806.882	810.443	810.038	810.443	806.882	802.459	800.647
60.0	742.036	746.410	745.200	746.410	742.036	738.040	735.429
62.5	676.744	680.989	679.801	680.989	676.744	673.134	669.773
65.0	611.245	614.755	613.875	614.755	611.245	608.359	604.171
67.5	545.851	549.150	547.433	549.150	545.851	542.373	539.104
70.0	480.730	483.386	480.986	483.386	480.730	476.493	473.513
72.5	414.715	418.119	415.635	418.119	414.715	411.680	407.867
75.0	350.141	353.322	350.471	353.322	350.141	348.157	342.800
77.5	287.464	288.846	286.583	288.846	287.464	284.823	279.901
80.0	224.794	225.871	223.204	225.871	224.794	222.607	218.584

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CANDELA TABULATION - (Cont.)

82.5	163.517	164.579	162.054	164.579	163.517	161.906	159.176
85.0	104.468	105.859	103.694	105.859	104.468	103.537	101.245
87.5	48.592	50.155	48.252	50.155	48.592	48.271	46.308
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	608.01	N.A.	12.60
0-30	1290.37	N.A.	26.70
0-40	2112.93	N.A.	43.70
0-60	3744.78	N.A.	77.40
0-80	4718.97	N.A.	97.60
0-90	4835.17	N.A.	100.00
10-90	4677.74	N.A.	96.70
20-40	1504.92	N.A.	31.10
20-50	2359.69	N.A.	48.80
40-70	2236.44	N.A.	46.30
60-80	974.19	N.A.	20.10
70-80	369.60	N.A.	7.60
80-90	116.20	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	4835.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.43
10-20	450.59
20-30	682.36
30-40	822.56
40-50	854.77
50-60	777.08
60-70	604.58
70-80	369.60
80-90	116.20
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

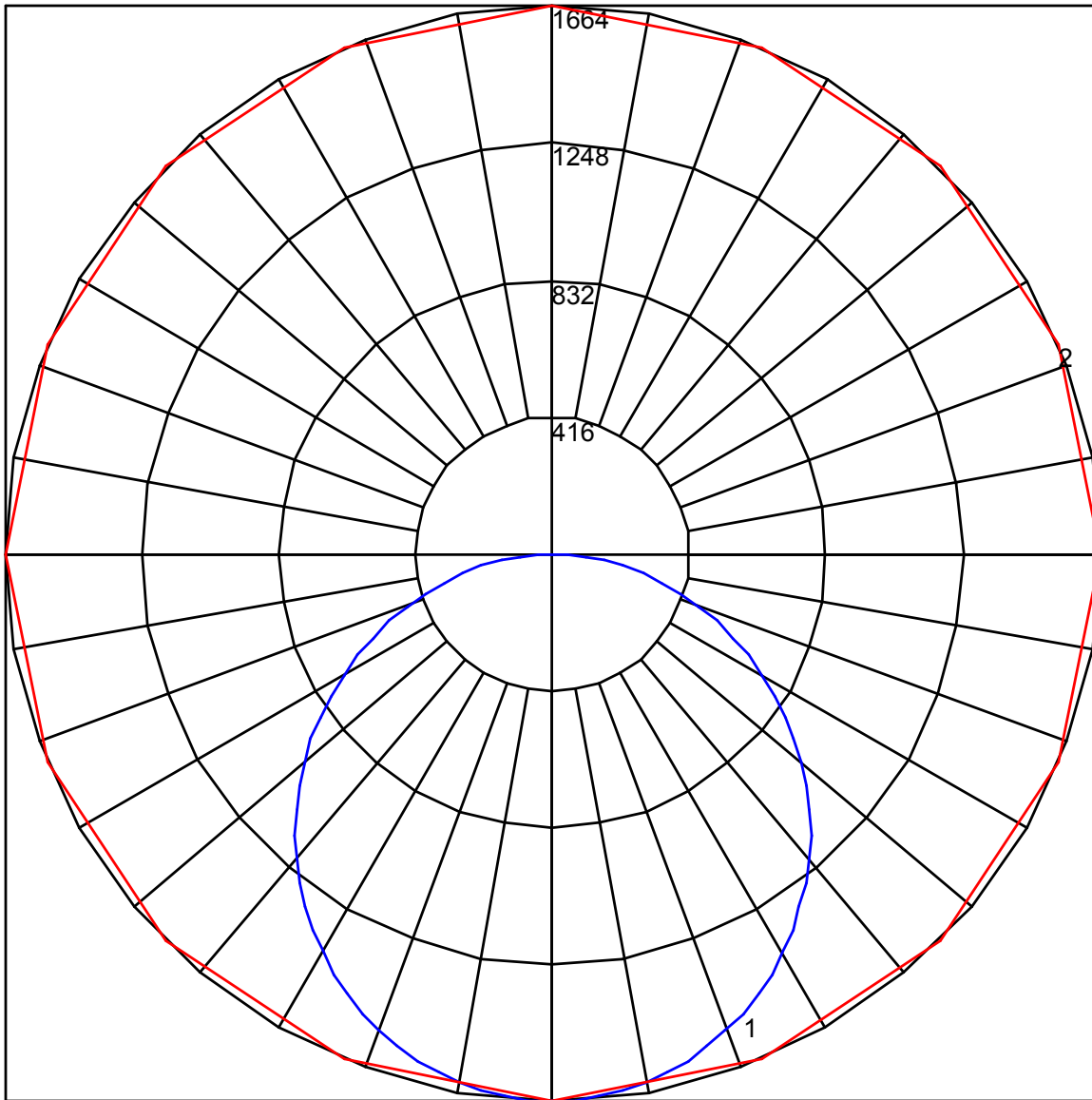
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1664.342 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.)