



IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUARTZ_6V_12W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] C9050R
 [TESTLAB] LUXNET
 [ISSUEDATE] 5/5/2020
 [MANUFAC] BeLuce Canada Inc.
 [LAMP] Quartz Incandescent Lamp 6V 12W WHT
 [MORE] BeLuce LUXNET REMOTE HEAD CAT
 [MORE] SPECULAR REFLECTOR AND PRISMATIC GLASS LENS
 [MORE] LUMEN RATING = 178 LMS

CHARACTERISTICS

Lumens Per Lamp	178 (1 lamp)
Total Lamp Lumens	178
Luminaire Lumens	81
Total Luminaire Efficiency	46 %
Luminaire Efficacy Rating (LER)	7
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.32
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56
1	418.30	427.20	430.76	420.08	404.06	386.26	386.26	391.60	391.60	391.60
2	484.16	468.14	482.38	475.26	448.56	425.42	420.08	418.30	414.74	412.96
3	542.90	496.62	509.08	507.30	480.60	453.90	448.56	439.66	428.98	427.20
4	592.74	496.62	512.64	512.64	487.72	468.14	461.02	445.00	428.98	423.64
5	592.74	462.80	487.72	477.04	453.90	448.56	441.44	420.08	407.62	398.72
6	539.34	404.06	425.42	409.40	396.94	400.50	395.16	370.24	363.12	350.66
7	452.12	322.18	341.76	327.52	313.28	322.18	318.62	293.70	293.70	277.68
8	363.12	247.42	267.00	247.42	233.18	243.86	238.52	218.94	218.94	208.26
9	272.34	179.78	194.02	183.34	169.10	176.22	172.66	156.64	156.64	145.96
10	192.24	122.82	129.94	119.26	112.14	117.48	112.14	99.68	103.24	96.12
11	131.72	80.10	89.00	76.54	72.98	81.88	78.32	65.86	65.86	64.08
12	76.54	48.06	51.62	46.28	44.50	49.84	51.62	40.94	42.72	42.72
13	48.06	32.04	37.38	30.26	32.04	33.82	30.26	32.04	35.60	33.82
14	30.26	19.58	21.36	19.58	19.58	23.14	23.14	19.58	23.14	24.92
15	21.36	12.46	12.46	12.46	12.46	16.02	17.80	16.02	19.58	23.14
16	14.24	10.68	8.90	8.90	10.68	8.90	14.24	14.24	19.58	21.36
17	10.68	7.12	7.12	5.34	5.34	8.90	14.24	12.46	17.80	19.58
18	7.12	5.34	10.68	7.12	7.12	10.68	14.24	12.46	16.02	16.02
19	5.34	5.34	7.12	8.90	3.56	8.90	10.68	17.80	14.24	12.46
20	7.12	3.56	3.56	7.12	5.34	8.90	10.68	17.80	10.68	10.68
21	5.34	5.34	5.34	3.56	5.34	12.46	16.02	14.24	7.12	8.90
22	3.56	3.56	3.56	7.12	7.12	12.46	14.24	12.46	7.12	10.68
23	8.90	1.78	7.12	7.12	8.90	10.68	14.24	8.90	7.12	10.68
24	7.12	5.34	5.34	5.34	5.34	16.02	14.24	8.90	8.90	8.90
25	7.12	3.56	5.34	5.34	10.68	10.68	16.02	5.34	8.90	10.68
26	1.78	1.78	5.34	3.56	10.68	12.46	16.02	7.12	8.90	12.46
27	1.78	5.34	3.56	5.34	8.90	16.02	10.68	8.90	10.68	10.68
28	8.90	5.34	1.78	7.12	10.68	16.02	8.90	7.12	12.46	8.90
29	8.90	1.78	3.56	5.34	16.02	16.02	12.46	8.90	10.68	7.12
30	7.12	5.34	5.34	7.12	12.46	14.24	10.68	7.12	8.90	8.90
31	1.78	5.34	3.56	7.12	14.24	10.68	10.68	8.90	7.12	5.34
32	3.56	3.56	8.90	12.46	12.46	10.68	7.12	8.90	5.34	5.34
33	3.56	5.34	5.34	10.68	16.02	7.12	10.68	12.46	5.34	3.56
34	5.34	3.56	8.90	14.24	19.58	8.90	10.68	10.68	7.12	1.78
35	8.90	7.12	8.90	16.02	17.80	8.90	10.68	8.90	5.34	5.34
36	3.56	8.90	8.90	19.58	21.36	10.68	10.68	7.12	3.56	5.34
37	3.56	5.34	14.24	21.36	23.14	14.24	14.24	5.34	7.12	3.56
38	3.56	7.12	14.24	23.14	21.36	10.68	14.24	8.90	5.34	7.12
39	7.12	8.90	14.24	24.92	23.14	16.02	12.46	8.90	5.34	8.90
40	8.90	10.68	14.24	30.26	24.92	23.14	10.68	7.12	8.90	12.46
41	7.12	7.12	16.02	26.70	26.70	26.70	7.12	5.34	7.12	19.58
42	0.00	5.34	17.80	32.04	30.26	26.70	7.12	3.56	5.34	23.14
43	0.00	5.34	21.36	33.82	28.48	23.14	5.34	7.12	12.46	24.92
44	1.78	8.90	19.58	32.04	32.04	17.80	7.12	5.34	14.24	24.92
45	0.00	8.90	21.36	35.60	30.26	14.24	5.34	7.12	19.58	26.70
46	0.00	8.90	23.14	33.82	30.26	14.24	3.56	8.90	28.48	26.70
47	7.12	7.12	21.36	33.82	26.70	10.68	3.56	7.12	30.26	28.48
48	5.34	10.68	21.36	35.60	24.92	5.34	3.56	8.90	32.04	30.26
49	1.78	8.90	21.36	35.60	21.36	1.78	1.78	5.34	28.48	30.26
50	7.12	8.90	24.92	39.16	16.02	3.56	5.34	10.68	28.48	30.26
51	1.78	10.68	26.70	39.16	14.24	5.34	3.56	14.24	28.48	21.36
52	7.12	14.24	23.14	42.72	12.46	3.56	1.78	19.58	30.26	14.24
53	1.78	16.02	24.92	39.16	10.68	5.34	3.56	23.14	24.92	12.46

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CANDELA TABULATION - (Cont.)

54	1.78	17.80	28.48	37.38	7.12	1.78	0.00	24.92	23.14	7.12
55	1.78	14.24	30.26	37.38	7.12	3.56	1.78	28.48	17.80	3.56
56	5.34	12.46	33.82	33.82	5.34	0.00	7.12	30.26	10.68	3.56
57	5.34	14.24	32.04	33.82	3.56	3.56	7.12	28.48	8.90	1.78
58	0.00	12.46	33.82	26.70	0.00	1.78	8.90	28.48	8.90	1.78
59	1.78	14.24	32.04	21.36	3.56	1.78	10.68	23.14	5.34	0.00
60	0.00	10.68	26.70	17.80	1.78	1.78	14.24	17.80	5.34	1.78
61	1.78	8.90	21.36	12.46	3.56	3.56	19.58	14.24	1.78	0.00
62	0.00	8.90	19.58	8.90	1.78	7.12	14.24	10.68	1.78	0.00
63	0.00	5.34	12.46	5.34	1.78	7.12	14.24	5.34	0.00	1.78
64	1.78	7.12	10.68	0.00	0.00	5.34	14.24	5.34	0.00	3.56
65	1.78	5.34	8.90	0.00	1.78	5.34	10.68	7.12	0.00	5.34
66	0.00	5.34	7.12	0.00	1.78	5.34	12.46	3.56	3.56	7.12
67	0.00	5.34	7.12	0.00	1.78	3.56	7.12	5.34	1.78	10.68
68	1.78	5.34	7.12	0.00	1.78	3.56	5.34	3.56	1.78	10.68
69	0.00	8.90	5.34	0.00	1.78	7.12	1.78	1.78	3.56	12.46
70	0.00	5.34	5.34	0.00	3.56	5.34	3.56	3.56	0.00	10.68
71	0.00	7.12	5.34	0.00	3.56	3.56	3.56	1.78	0.00	7.12
90	0.00	3.56	0.00	0.00	0.00	0.00	1.78	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56
1	372.02	366.68	361.34	356.00	352.44	357.78	350.66	348.88	348.88	345.32
2	386.26	377.36	372.02	359.56	348.88	354.22	348.88	341.76	336.42	332.86
3	395.16	375.58	366.68	356.00	343.54	343.54	336.42	322.18	322.18	316.84
4	389.82	363.12	352.44	336.42	322.18	320.40	315.06	299.04	295.48	291.92
5	356.00	334.64	325.74	299.04	288.36	293.70	281.24	270.56	265.22	263.44
6	313.28	299.04	283.02	261.66	245.64	250.98	245.64	229.62	227.84	227.84
7	247.42	243.86	231.40	206.48	194.02	204.70	199.36	190.46	190.46	188.68
8	179.78	183.34	179.78	151.30	149.52	158.42	151.30	154.86	160.20	160.20
9	129.94	133.50	129.94	110.36	108.58	119.26	115.70	117.48	122.82	122.82
10	81.88	87.22	85.44	78.32	74.76	85.44	85.44	90.78	92.56	94.34
11	56.96	58.74	64.08	56.96	62.30	65.86	65.86	67.64	80.10	83.66
12	40.94	42.72	46.28	44.50	48.06	49.84	49.84	49.84	62.30	65.86
13	30.26	37.38	35.60	32.04	32.04	39.16	39.16	40.94	42.72	49.84
14	26.70	24.92	28.48	28.48	26.70	28.48	32.04	28.48	35.60	37.38
15	21.36	19.58	21.36	19.58	17.80	17.80	24.92	24.92	28.48	32.04
16	19.58	17.80	14.24	12.46	16.02	19.58	16.02	19.58	24.92	30.26
17	14.24	10.68	8.90	14.24	14.24	16.02	21.36	23.14	28.48	32.04
18	8.90	8.90	8.90	12.46	14.24	17.80	24.92	28.48	30.26	35.60
19	7.12	8.90	10.68	10.68	19.58	17.80	21.36	26.70	30.26	35.60
20	7.12	8.90	12.46	12.46	19.58	17.80	19.58	23.14	28.48	30.26
21	8.90	10.68	10.68	14.24	12.46	17.80	17.80	17.80	21.36	23.14
22	7.12	10.68	14.24	10.68	14.24	8.90	8.90	10.68	12.46	14.24
23	8.90	10.68	12.46	7.12	5.34	5.34	5.34	8.90	8.90	8.90
24	10.68	10.68	7.12	5.34	5.34	8.90	5.34	7.12	12.46	14.24
25	10.68	8.90	5.34	3.56	3.56	3.56	7.12	7.12	8.90	10.68
26	10.68	7.12	3.56	5.34	3.56	3.56	7.12	10.68	12.46	14.24
27	5.34	3.56	5.34	1.78	5.34	7.12	7.12	14.24	17.80	17.80
28	3.56	3.56	5.34	1.78	5.34	8.90	10.68	16.02	17.80	19.58
29	1.78	3.56	1.78	8.90	14.24	12.46	17.80	14.24	19.58	23.14
30	5.34	1.78	5.34	10.68	10.68	12.46	14.24	12.46	17.80	21.36
31	1.78	1.78	7.12	12.46	12.46	10.68	14.24	10.68	17.80	21.36
32	5.34	7.12	8.90	14.24	12.46	12.46	8.90	10.68	14.24	21.36

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CANDELA TABULATION - (Cont.)

33	3.56	5.34	14.24	10.68	12.46	10.68	12.46	16.02	23.14	28.48
34	5.34	8.90	14.24	10.68	12.46	12.46	17.80	19.58	28.48	40.94
35	3.56	16.02	14.24	16.02	17.80	23.14	23.14	26.70	35.60	46.28
36	7.12	17.80	14.24	16.02	26.70	26.70	23.14	23.14	33.82	44.50
37	14.24	14.24	17.80	23.14	21.36	19.58	16.02	12.46	21.36	33.82
38	17.80	16.02	17.80	23.14	14.24	10.68	7.12	8.90	10.68	28.48
39	19.58	19.58	21.36	17.80	7.12	5.34	3.56	3.56	3.56	23.14
40	17.80	21.36	28.48	10.68	5.34	1.78	1.78	0.00	7.12	16.02
41	23.14	24.92	19.58	3.56	0.00	1.78	3.56	3.56	3.56	17.80
42	21.36	28.48	10.68	0.00	3.56	1.78	3.56	0.00	3.56	12.46
43	24.92	24.92	8.90	1.78	0.00	0.00	1.78	1.78	3.56	7.12
44	28.48	17.80	3.56	1.78	1.78	0.00	1.78	3.56	1.78	5.34
45	30.26	8.90	0.00	0.00	1.78	1.78	3.56	0.00	1.78	1.78
46	28.48	3.56	1.78	1.78	0.00	0.00	0.00	5.34	3.56	7.12
47	21.36	0.00	0.00	1.78	1.78	1.78	0.00	3.56	5.34	7.12
48	12.46	3.56	0.00	1.78	0.00	0.00	1.78	5.34	7.12	7.12
49	10.68	1.78	1.78	1.78	1.78	1.78	1.78	5.34	7.12	8.90
50	5.34	1.78	1.78	1.78	1.78	3.56	3.56	5.34	10.68	12.46
51	5.34	0.00	3.56	3.56	1.78	5.34	3.56	7.12	12.46	14.24
52	0.00	1.78	3.56	7.12	3.56	3.56	3.56	7.12	16.02	17.80
53	0.00	3.56	3.56	8.90	5.34	7.12	5.34	10.68	16.02	19.58
54	1.78	3.56	7.12	7.12	7.12	5.34	7.12	5.34	14.24	19.58
55	3.56	7.12	7.12	5.34	5.34	5.34	3.56	7.12	17.80	21.36
56	1.78	5.34	10.68	7.12	5.34	7.12	3.56	5.34	19.58	24.92
57	1.78	5.34	10.68	5.34	1.78	3.56	3.56	7.12	16.02	23.14
58	1.78	8.90	8.90	5.34	7.12	5.34	3.56	8.90	12.46	16.02
59	7.12	10.68	5.34	3.56	5.34	7.12	8.90	7.12	10.68	10.68
60	7.12	8.90	3.56	3.56	3.56	7.12	3.56	7.12	14.24	12.46
61	5.34	8.90	7.12	7.12	7.12	1.78	3.56	10.68	12.46	14.24
62	8.90	5.34	5.34	7.12	3.56	0.00	3.56	5.34	10.68	17.80
63	8.90	8.90	10.68	3.56	1.78	1.78	3.56	8.90	10.68	16.02
64	7.12	5.34	10.68	5.34	5.34	1.78	3.56	7.12	10.68	14.24
65	5.34	7.12	10.68	3.56	3.56	3.56	0.00	8.90	12.46	10.68
66	5.34	10.68	5.34	8.90	3.56	3.56	3.56	8.90	10.68	10.68
67	7.12	10.68	8.90	5.34	5.34	3.56	5.34	8.90	10.68	12.46
68	7.12	10.68	5.34	7.12	7.12	5.34	3.56	10.68	14.24	8.90
69	8.90	8.90	7.12	7.12	5.34	5.34	1.78	8.90	12.46	7.12
70	12.46	7.12	8.90	5.34	3.56	3.56	1.78	8.90	10.68	7.12
71	12.46	3.56	8.90	5.34	7.12	7.12	3.56	8.90	7.12	7.12
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56	359.56
1	339.98	336.42	334.64	329.30	332.86	334.64	332.86	338.20	338.20	329.30
2	325.74	323.96	322.18	311.50	313.28	311.50	307.94	313.28	309.72	302.60
3	307.94	306.16	299.04	293.70	291.92	297.26	286.58	295.48	290.14	279.46
4	283.02	281.24	275.90	270.56	268.78	275.90	265.22	274.12	268.78	258.10
5	254.54	261.66	259.88	247.42	250.98	250.98	243.86	249.20	245.64	236.74
6	227.84	229.62	229.62	222.50	226.06	233.18	227.84	229.62	231.40	226.06
7	194.02	199.36	201.14	197.58	202.92	210.04	208.26	211.82	210.04	208.26
8	158.42	176.22	181.56	181.56	190.46	192.24	192.24	195.80	194.02	186.90
9	133.50	144.18	153.08	154.86	167.32	176.22	179.78	183.34	181.56	178.00
10	105.02	121.04	129.94	135.28	151.30	160.20	167.32	174.44	169.10	161.98
11	85.44	105.02	115.70	124.60	135.28	153.08	154.86	161.98	161.98	153.08

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CANDELA TABULATION - (Cont.)

12	69.42	89.00	97.90	110.36	121.04	138.84	142.40	153.08	151.30	138.84
13	56.96	71.20	87.22	94.34	115.70	122.82	133.50	140.62	138.84	124.60
14	48.06	60.52	71.20	87.22	99.68	117.48	124.60	131.72	128.16	108.58
15	39.16	51.62	62.30	74.76	92.56	108.58	110.36	121.04	113.92	90.78
16	35.60	44.50	64.08	69.42	83.66	99.68	103.24	106.80	101.46	85.44
17	44.50	53.40	56.96	67.64	76.54	87.22	94.34	99.68	92.56	69.42
18	46.28	51.62	55.18	64.08	71.20	80.10	85.44	89.00	83.66	62.30
19	40.94	46.28	53.40	58.74	65.86	72.98	78.32	74.76	69.42	58.74
20	35.60	40.94	49.84	55.18	60.52	64.08	69.42	65.86	62.30	51.62
21	30.26	39.16	40.94	46.28	55.18	58.74	55.18	60.52	55.18	44.50
22	17.80	24.92	32.04	39.16	49.84	48.06	49.84	44.50	44.50	44.50
23	12.46	17.80	23.14	32.04	39.16	40.94	40.94	39.16	39.16	42.72
24	10.68	14.24	19.58	19.58	28.48	32.04	26.70	35.60	35.60	32.04
25	14.24	16.02	17.80	14.24	16.02	21.36	24.92	23.14	28.48	30.26
26	16.02	14.24	14.24	8.90	10.68	10.68	17.80	16.02	19.58	26.70
27	14.24	12.46	12.46	10.68	8.90	10.68	8.90	12.46	10.68	23.14
28	16.02	12.46	10.68	7.12	5.34	10.68	5.34	10.68	5.34	17.80
29	21.36	14.24	10.68	8.90	7.12	1.78	5.34	8.90	7.12	7.12
30	23.14	14.24	10.68	7.12	3.56	3.56	5.34	5.34	10.68	3.56
31	26.70	19.58	12.46	7.12	3.56	3.56	3.56	5.34	7.12	3.56
32	26.70	24.92	16.02	8.90	3.56	3.56	0.00	1.78	5.34	5.34
33	32.04	30.26	23.14	12.46	7.12	3.56	3.56	7.12	3.56	5.34
34	35.60	37.38	28.48	14.24	7.12	5.34	3.56	3.56	3.56	5.34
35	46.28	33.82	30.26	21.36	10.68	3.56	1.78	1.78	3.56	5.34
36	46.28	37.38	32.04	19.58	14.24	5.34	3.56	3.56	5.34	5.34
37	39.16	39.16	24.92	17.80	12.46	10.68	3.56	1.78	3.56	1.78
38	32.04	33.82	26.70	16.02	12.46	10.68	5.34	5.34	3.56	3.56
39	30.26	28.48	24.92	17.80	10.68	10.68	8.90	5.34	3.56	1.78
40	32.04	30.26	30.26	21.36	16.02	8.90	10.68	7.12	7.12	5.34
41	30.26	33.82	24.92	21.36	14.24	14.24	10.68	8.90	5.34	1.78
42	21.36	26.70	17.80	17.80	16.02	14.24	8.90	12.46	7.12	3.56
43	14.24	16.02	10.68	8.90	16.02	16.02	14.24	10.68	8.90	7.12
44	7.12	10.68	3.56	1.78	7.12	16.02	12.46	12.46	8.90	7.12
45	5.34	7.12	7.12	3.56	0.00	12.46	14.24	10.68	12.46	14.24
46	5.34	3.56	0.00	1.78	1.78	5.34	12.46	8.90	10.68	10.68
47	5.34	5.34	1.78	1.78	0.00	1.78	10.68	10.68	10.68	12.46
48	8.90	7.12	5.34	7.12	5.34	5.34	10.68	12.46	12.46	12.46
49	10.68	7.12	5.34	3.56	3.56	3.56	5.34	10.68	10.68	12.46
50	12.46	8.90	8.90	1.78	3.56	7.12	5.34	14.24	14.24	17.80
51	12.46	10.68	5.34	1.78	3.56	3.56	5.34	14.24	12.46	14.24
52	17.80	12.46	7.12	3.56	1.78	7.12	5.34	10.68	12.46	14.24
53	16.02	8.90	8.90	7.12	5.34	5.34	7.12	5.34	16.02	10.68
54	16.02	10.68	7.12	8.90	5.34	5.34	5.34	5.34	12.46	14.24
55	19.58	14.24	5.34	5.34	3.56	7.12	3.56	3.56	8.90	14.24
56	21.36	17.80	10.68	8.90	3.56	5.34	8.90	8.90	12.46	14.24
57	16.02	10.68	8.90	8.90	5.34	1.78	7.12	7.12	10.68	14.24
58	16.02	5.34	8.90	7.12	7.12	3.56	5.34	8.90	1.78	12.46
59	7.12	7.12	5.34	8.90	5.34	3.56	1.78	7.12	3.56	12.46
60	7.12	3.56	1.78	3.56	10.68	3.56	0.00	5.34	3.56	14.24
61	8.90	3.56	3.56	5.34	8.90	5.34	7.12	8.90	5.34	12.46
62	12.46	5.34	3.56	3.56	7.12	5.34	3.56	5.34	5.34	12.46
63	12.46	5.34	3.56	3.56	7.12	8.90	3.56	3.56	5.34	10.68
64	8.90	5.34	5.34	1.78	5.34	8.90	3.56	1.78	3.56	5.34
65	8.90	7.12	3.56	1.78	5.34	7.12	5.34	1.78	3.56	3.56
66	7.12	7.12	5.34	1.78	3.56	8.90	1.78	1.78	5.34	5.34
67	5.34	8.90	7.12	5.34	3.56	7.12	1.78	1.78	3.56	3.56

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

68	5.34	3.56	7.12	1.78	1.78	8.90	3.56	0.00	3.56	1.78
69	3.56	3.56	5.34	3.56	1.78	3.56	0.00	1.78	3.56	1.78
70	1.78	5.34	5.34	3.56	5.34	3.56	0.00	1.78	3.56	1.78
71	0.00	3.56	7.12	3.56	1.78	0.00	3.56	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	359.56	359.56	359.56	359.56	359.56	359.56	359.56
1	323.96	338.20	331.08	327.52	347.10	354.22	343.54
2	295.48	307.94	300.82	295.48	315.06	318.62	306.16
3	272.34	284.80	277.68	268.78	291.92	288.36	281.24
4	250.98	265.22	254.54	247.42	263.44	267.00	254.54
5	231.40	240.30	234.96	231.40	242.08	249.20	236.74
6	220.72	226.06	220.72	215.38	224.28	226.06	218.94
7	199.36	208.26	199.36	197.58	208.26	208.26	201.14
8	185.12	188.68	186.90	179.78	195.80	195.80	188.68
9	178.00	178.00	176.22	169.10	181.56	179.78	174.44
10	161.98	161.98	160.20	154.86	158.42	163.76	151.30
11	144.18	145.96	142.40	133.50	142.40	142.40	124.60
12	129.94	129.94	119.26	112.14	121.04	117.48	99.68
13	112.14	106.80	101.46	89.00	96.12	94.34	72.98
14	92.56	89.00	76.54	71.20	72.98	78.32	56.96
15	80.10	67.64	58.74	53.40	55.18	56.96	46.28
16	60.52	53.40	44.50	42.72	46.28	44.50	39.16
17	56.96	42.72	37.38	35.60	37.38	37.38	33.82
18	51.62	35.60	33.82	28.48	33.82	35.60	35.60
19	46.28	33.82	26.70	24.92	32.04	32.04	35.60
20	42.72	30.26	21.36	24.92	24.92	28.48	28.48
21	39.16	26.70	21.36	21.36	26.70	26.70	26.70
22	33.82	26.70	19.58	21.36	23.14	26.70	26.70
23	35.60	26.70	14.24	19.58	24.92	24.92	30.26
24	33.82	26.70	16.02	16.02	19.58	26.70	28.48
25	32.04	24.92	16.02	19.58	21.36	23.14	23.14
26	26.70	26.70	17.80	14.24	17.80	23.14	30.26
27	24.92	24.92	17.80	10.68	17.80	19.58	26.70
28	26.70	19.58	14.24	12.46	19.58	21.36	21.36
29	23.14	23.14	14.24	12.46	14.24	24.92	21.36
30	21.36	26.70	14.24	8.90	16.02	19.58	21.36
31	16.02	28.48	14.24	10.68	16.02	21.36	21.36
32	8.90	30.26	19.58	10.68	14.24	17.80	19.58
33	8.90	24.92	21.36	14.24	12.46	17.80	19.58
34	5.34	21.36	28.48	10.68	14.24	19.58	23.14
35	5.34	16.02	30.26	8.90	16.02	17.80	19.58
36	8.90	12.46	28.48	17.80	10.68	16.02	23.14
37	7.12	8.90	30.26	17.80	14.24	17.80	16.02
38	8.90	3.56	26.70	19.58	12.46	17.80	14.24
39	7.12	5.34	24.92	17.80	12.46	16.02	10.68
40	7.12	3.56	17.80	21.36	12.46	10.68	8.90
41	5.34	3.56	16.02	24.92	14.24	14.24	7.12
42	8.90	1.78	8.90	30.26	14.24	8.90	7.12
43	5.34	1.78	7.12	28.48	16.02	7.12	3.56
44	7.12	0.00	5.34	26.70	19.58	5.34	7.12
45	5.34	1.78	1.78	26.70	23.14	5.34	3.56
46	8.90	3.56	1.78	26.70	26.70	8.90	3.56

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47	5.34	3.56	1.78	24.92	26.70	5.34	3.56
48	12.46	1.78	1.78	21.36	24.92	5.34	1.78
49	8.90	1.78	3.56	17.80	24.92	3.56	1.78
50	12.46	5.34	1.78	16.02	23.14	3.56	0.00
51	12.46	5.34	3.56	16.02	23.14	1.78	0.00
52	10.68	5.34	1.78	12.46	19.58	3.56	0.00
53	14.24	7.12	1.78	10.68	17.80	3.56	0.00
54	12.46	5.34	1.78	8.90	16.02	3.56	0.00
55	10.68	3.56	1.78	10.68	16.02	3.56	0.00
56	8.90	1.78	3.56	10.68	16.02	5.34	0.00
57	8.90	3.56	3.56	7.12	14.24	7.12	0.00
58	12.46	3.56	3.56	7.12	17.80	5.34	0.00
59	5.34	1.78	1.78	8.90	10.68	3.56	0.00
60	8.90	5.34	0.00	7.12	10.68	1.78	0.00
61	5.34	1.78	3.56	5.34	14.24	3.56	0.00
62	7.12	7.12	0.00	3.56	8.90	3.56	0.00
63	10.68	5.34	1.78	0.00	10.68	3.56	0.00
64	7.12	3.56	1.78	1.78	8.90	5.34	0.00
65	5.34	5.34	1.78	0.00	8.90	5.34	0.00
66	3.56	3.56	1.78	1.78	10.68	1.78	0.00
67	7.12	3.56	3.56	0.00	8.90	7.12	0.00
68	7.12	3.56	1.78	0.00	12.46	7.12	0.00
69	5.34	3.56	3.56	0.00	10.68	1.78	0.00
70	3.56	3.56	0.00	0.00	10.68	1.78	1.78
71	3.56	3.56	1.78	0.00	8.90	1.78	3.56
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : QUARTZ_6V_12W.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	37.80	21.20	46.40
0-30	45.00	25.30	55.30
0-40	53.71	30.20	66.00
0-60	71.00	39.90	87.20
0-80	77.11	43.30	94.70
0-90	81.41	45.70	100.00
10-90	58.38	32.80	71.70
20-40	15.91	8.90	19.50
20-50	24.44	13.70	30.00
40-70	22.97	12.90	28.20
60-80	6.11	3.40	7.50
70-80	0.44	0.20	0.50
80-90	4.30	2.40	5.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	81.41	45.70	100.00

Total Luminaire Efficiency = 45.70%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.03
10-20	14.77
20-30	7.19
30-40	8.71
40-50	8.54
50-60	8.75
60-70	5.67
70-80	0.44
80-90	4.30
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

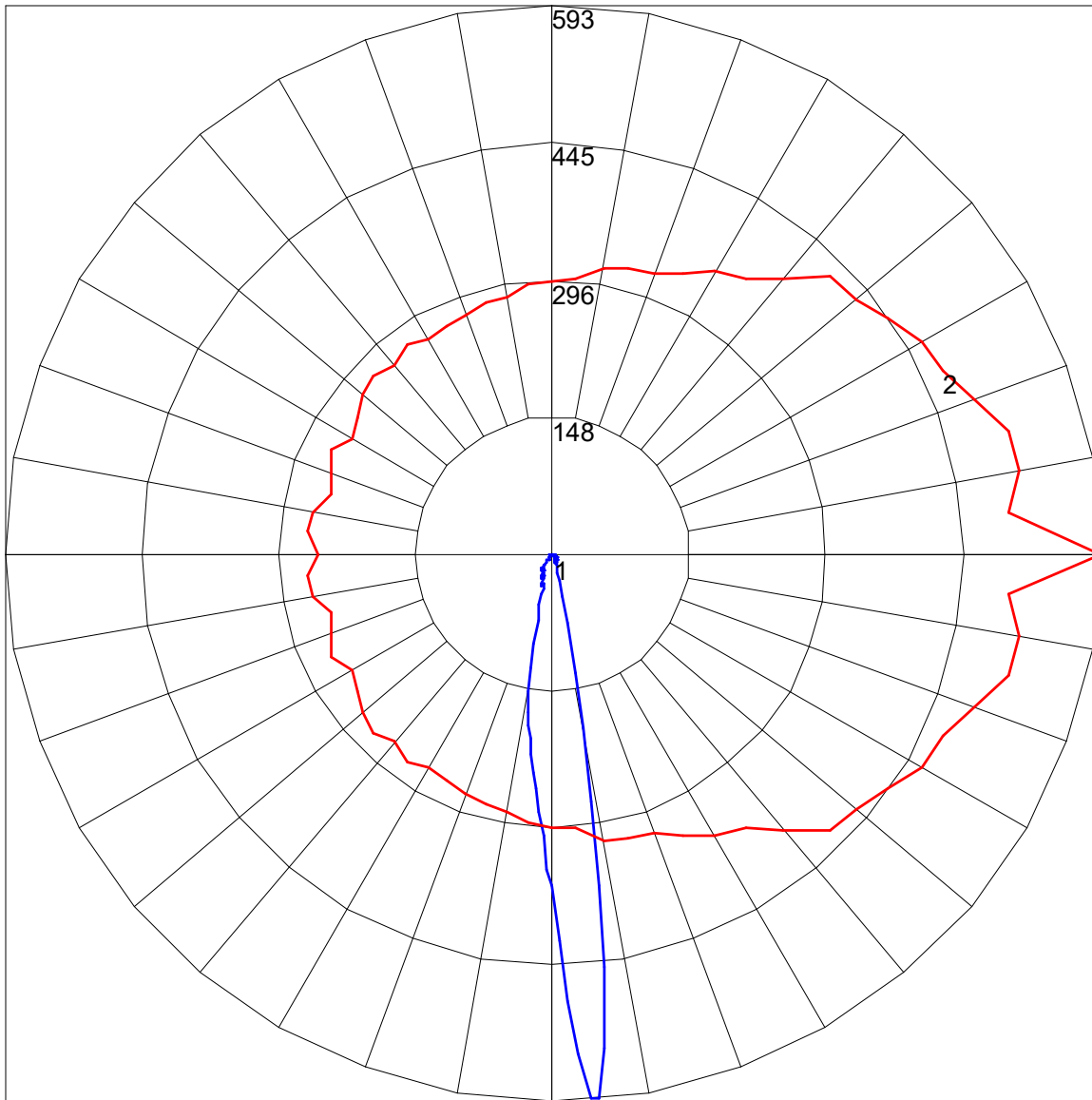
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	54	54	54	54	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	51	49	47	46	49	48	46	45	46	45	44	44	43	42	43	42	41	40
2	48	45	42	40	46	44	42	40	42	40	39	41	39	38	40	38	37	36
3	45	41	38	36	44	40	38	36	39	37	35	38	36	35	37	35	34	33
4	42	38	35	33	41	38	35	33	37	34	32	36	34	32	35	33	32	31
5	40	36	33	30	39	35	32	30	34	32	30	34	31	30	33	31	29	29
6	38	34	31	28	37	33	30	28	33	30	28	32	30	28	31	29	28	27
7	37	32	29	27	36	32	29	27	31	28	27	30	28	26	30	28	26	26
8	35	30	27	25	34	30	27	25	30	27	25	29	27	25	29	27	25	24
9	34	29	26	24	33	29	26	24	28	26	24	28	26	24	28	26	24	23
10	32	28	25	23	32	28	25	23	27	25	23	27	25	23	27	25	23	23

POLAR GRAPH



Maximum Candela = 592.74 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)