



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TUNGSTEN_24V_9W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] C9037R
 [TESTLAB] LUXNET
 [ISSUE DATE] 5/5/2020
 [MANUFAC] BeLuce Canada Inc.
 [LAMP] Tungsten Incandescent Lamp 24V 9W WHT
 [MORE] BeLuce LUXNET REMOTE HEAD CAT
 [MORE] SPECULAR REFLECTOR AND PRISMATIC GLASS LENS
 [MORE] LUMEN RATING = 113 LMS

CHARACTERISTICS

Lumens Per Lamp	113 (1 lamp)
Total Lamp Lumens	113
Luminaire Lumens	45
Total Luminaire Efficiency	40 %
Luminaire Efficacy Rating (LER)	5
Total Luminaire Watts	9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.30
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	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067
1	207.008	219.353	212.706	209.857	208.908	207.008	201.311	198.462	195.613	194.664
2	231.697	237.395	234.546	230.748	227.899	220.303	213.655	207.958	205.109	199.412
3	255.437	255.437	250.689	244.992	240.244	230.748	220.303	212.706	209.857	202.261
4	274.429	268.731	258.286	249.739	244.042	235.496	221.252	214.605	208.908	201.311
5	289.622	266.832	258.286	246.891	240.244	231.697	217.454	209.857	205.109	198.462
6	292.471	253.538	246.891	236.445	227.899	221.252	208.908	201.311	194.664	186.118
7	278.227	226.000	225.050	216.504	207.008	197.513	190.866	185.168	178.521	168.076
8	246.891	192.765	194.664	187.067	177.571	172.824	169.025	161.429	154.782	146.235
9	204.160	156.681	160.479	152.882	145.286	144.336	141.487	135.790	126.294	119.647
10	161.429	120.597	121.546	120.597	112.050	112.050	111.101	103.504	97.807	91.160
11	127.244	92.109	94.958	93.059	86.412	87.361	83.563	79.765	73.118	69.319
12	93.059	72.168	71.218	67.420	64.571	61.723	61.723	55.076	52.227	49.378
13	71.218	55.076	52.227	50.328	49.378	45.580	45.580	40.832	37.034	34.185
14	52.227	40.832	37.983	37.983	37.034	33.235	34.185	29.437	26.588	22.790
15	37.034	26.588	29.437	26.588	28.487	28.487	23.739	22.790	17.092	15.193
16	26.588	18.992	20.891	20.891	22.790	21.840	18.042	17.092	12.345	11.395
17	18.992	15.193	14.244	18.042	17.092	17.092	15.193	12.345	11.395	10.445
18	16.143	9.496	11.395	15.193	14.244	12.345	11.395	7.597	8.546	13.294
19	10.445	7.597	9.496	13.294	13.294	12.345	9.496	7.597	8.546	12.345
20	5.697	6.647	5.697	10.445	10.445	10.445	7.597	6.647	11.395	9.496
21	4.748	4.748	4.748	11.395	9.496	9.496	7.597	6.647	10.445	10.445
22	3.798	4.748	5.697	12.345	9.496	9.496	7.597	6.647	9.496	8.546
23	7.597	4.748	5.697	9.496	11.395	9.496	5.697	11.395	10.445	2.849
24	5.697	5.697	4.748	9.496	9.496	8.546	7.597	10.445	6.647	0.950
25	4.748	3.798	4.748	10.445	8.546	7.597	8.546	8.546	2.849	0.950
26	2.849	2.849	4.748	8.546	10.445	5.697	8.546	8.546	3.798	2.849
27	2.849	3.798	5.697	8.546	9.496	5.697	9.496	6.647	3.798	2.849
28	1.899	2.849	5.697	12.345	9.496	9.496	9.496	3.798	0.000	0.000
29	1.899	2.849	5.697	13.294	11.395	9.496	7.597	3.798	0.000	0.950
30	2.849	3.798	8.546	12.345	9.496	8.546	6.647	2.849	1.899	1.899
31	1.899	4.748	8.546	12.345	10.445	10.445	7.597	1.899	0.950	0.950
32	2.849	4.748	9.496	13.294	9.496	9.496	5.697	1.899	2.849	1.899
33	5.697	5.697	10.445	13.294	11.395	9.496	4.748	0.950	1.899	2.849
34	3.798	3.798	11.395	14.244	13.294	9.496	1.899	3.798	1.899	2.849
35	3.798	3.798	11.395	14.244	13.294	9.496	0.950	2.849	1.899	3.798
36	3.798	6.647	14.244	14.244	12.345	7.597	0.950	0.950	0.950	8.546
37	1.899	5.697	14.244	15.193	10.445	5.697	2.849	1.899	1.899	9.496
38	1.899	3.798	12.345	13.294	11.395	3.798	2.849	0.950	3.798	7.597
39	0.950	5.697	12.345	11.395	9.496	3.798	0.950	1.899	4.748	10.445
40	1.899	3.798	11.395	12.345	8.546	1.899	1.899	2.849	6.647	12.345
41	2.849	3.798	11.395	12.345	10.445	0.950	2.849	2.849	9.496	14.244
42	0.000	3.798	8.546	11.395	7.597	4.748	0.950	3.798	9.496	10.445
43	2.849	2.849	8.546	11.395	6.647	3.798	1.899	5.697	11.395	12.345
44	1.899	3.798	10.445	10.445	6.647	1.899	1.899	5.697	10.445	13.294
45	0.000	3.798	9.496	11.395	4.748	1.899	0.950	8.546	12.345	14.244
46	0.000	5.697	9.496	12.345	5.697	0.950	0.950	8.546	10.445	12.345
47	0.000	5.697	11.395	9.496	4.748	1.899	2.849	8.546	12.345	6.647
48	0.000	6.647	11.395	9.496	5.697	0.950	3.798	9.496	11.395	3.798
49	0.000	6.647	9.496	9.496	3.798	2.849	3.798	7.597	13.294	1.899
50	0.950	4.748	9.496	7.597	2.849	0.950	3.798	9.496	14.244	1.899
51	0.000	5.697	11.395	6.647	2.849	1.899	4.748	9.496	11.395	0.950
52	0.950	4.748	10.445	8.546	1.899	3.798	8.546	8.546	6.647	0.950
53	0.000	2.849	9.496	7.597	2.849	2.849	11.395	7.597	2.849	1.899

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CANDELA TABULATION - (Cont.)

54	1.899	1.899	9.496	5.697	0.950	2.849	10.445	8.546	0.950	1.899
55	0.950	0.950	9.496	2.849	2.849	3.798	7.597	7.597	0.950	0.950
56	1.899	2.849	10.445	2.849	1.899	4.748	6.647	9.496	1.899	0.950
57	0.000	1.899	5.697	1.899	2.849	3.798	5.697	6.647	0.000	2.849
58	0.950	1.899	5.697	0.950	2.849	3.798	3.798	6.647	0.950	4.748
59	0.000	2.849	4.748	0.950	1.899	2.849	3.798	6.647	0.000	5.697
60	0.950	1.899	4.748	0.000	2.849	3.798	1.899	4.748	1.899	6.647
61	0.000	2.849	4.748	0.000	0.950	5.697	0.950	3.798	1.899	7.597
62	0.000	3.798	4.748	0.000	1.899	5.697	0.000	2.849	1.899	9.496
63	0.950	1.899	3.798	0.000	3.798	2.849	0.950	1.899	3.798	9.496
64	0.000	2.849	3.798	0.000	3.798	1.899	1.899	1.899	3.798	9.496
65	0.000	2.849	4.748	0.950	4.748	1.899	0.950	0.950	4.748	6.647
66	0.950	2.849	2.849	0.000	5.697	1.899	0.950	0.950	4.748	7.597
67	0.950	4.748	2.849	0.000	7.597	0.000	0.950	1.899	3.798	8.546
68	0.000	2.849	0.950	0.950	7.597	0.950	2.849	0.950	1.899	4.748
69	0.000	4.748	0.950	0.000	10.445	0.950	2.849	0.950	0.950	1.899
70	0.000	4.748	1.899	0.000	10.445	0.000	3.798	1.899	0.000	0.950
71	0.000	3.798	1.899	0.000	10.445	0.000	3.798	1.899	0.950	0.000
90	0.000	3.798	0.950	0.950	0.950	0.000	0.000	0.000	0.000	0.000

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	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067
1	191.815	189.916	188.017	185.168	187.067	182.319	178.521	179.471	178.521	178.521
2	195.613	192.765	186.118	184.218	183.269	180.420	177.571	173.773	174.723	170.924
3	196.563	193.714	185.168	181.370	178.521	176.622	172.824	168.076	168.076	163.328
4	194.664	189.916	185.168	179.471	177.571	172.824	167.126	163.328	159.529	156.681
5	188.966	183.269	174.723	168.076	167.126	163.328	155.731	152.882	151.933	150.034
6	173.773	166.176	159.529	151.933	146.235	143.387	138.639	135.790	136.739	136.739
7	154.782	145.286	139.588	133.891	127.244	123.445	119.647	118.697	119.647	118.697
8	131.992	124.395	118.697	113.950	107.303	105.403	100.655	100.655	102.555	101.605
9	108.252	101.605	96.857	91.160	84.513	83.563	79.765	78.815	82.613	85.462
10	81.664	75.017	73.118	68.370	63.622	62.672	64.571	63.622	66.471	67.420
11	60.773	54.126	52.227	50.328	47.479	49.378	50.328	51.277	55.076	57.924
12	41.782	37.983	40.832	39.882	35.134	36.084	40.832	43.681	48.429	50.328
13	28.487	26.588	29.437	28.487	29.437	30.387	36.084	39.882	41.782	41.782
14	19.941	19.941	21.840	22.790	25.639	28.487	33.235	33.235	33.235	33.235
15	16.143	15.193	17.092	20.891	27.538	27.538	26.588	25.639	28.487	29.437
16	13.294	16.143	18.992	23.739	18.042	13.294	17.092	17.092	21.840	25.639
17	12.345	17.092	18.992	15.193	7.597	6.647	8.546	9.496	14.244	19.941
18	14.244	15.193	10.445	5.697	4.748	4.748	6.647	11.395	11.395	14.244
19	14.244	7.597	5.697	2.849	2.849	4.748	6.647	8.546	10.445	10.445
20	7.597	2.849	3.798	2.849	2.849	1.899	4.748	5.697	6.647	6.647
21	3.798	4.748	1.899	3.798	3.798	1.899	4.748	4.748	6.647	6.647
22	1.899	4.748	0.950	3.798	3.798	2.849	3.798	4.748	6.647	6.647
23	3.798	1.899	3.798	0.950	1.899	2.849	4.748	5.697	7.597	6.647
24	2.849	2.849	3.798	1.899	1.899	3.798	5.697	7.597	7.597	6.647
25	1.899	2.849	2.849	2.849	3.798	6.647	7.597	9.496	8.546	9.496
26	0.950	0.950	2.849	6.647	7.597	6.647	8.546	12.345	14.244	14.244
27	1.899	0.950	3.798	8.546	8.546	7.597	9.496	13.294	17.092	19.941
28	1.899	2.849	5.697	6.647	9.496	11.395	10.445	12.345	15.193	20.891
29	1.899	4.748	6.647	7.597	11.395	10.445	9.496	11.395	13.294	18.042
30	4.748	6.647	7.597	8.546	10.445	9.496	7.597	9.496	12.345	14.244
31	2.849	5.697	8.546	9.496	8.546	5.697	6.647	6.647	7.597	13.294
32	4.748	8.546	10.445	5.697	6.647	5.697	5.697	8.546	10.445	13.294

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CANDELA TABULATION - (Cont.)

33	7.597	10.445	9.496	5.697	6.647	5.697	5.697	9.496	12.345	13.294
34	7.597	9.496	6.647	8.546	7.597	1.899	3.798	4.748	10.445	15.193
35	8.546	11.395	8.546	10.445	3.798	0.000	1.899	5.697	13.294	18.992
36	8.546	7.597	8.546	3.798	0.000	0.950	2.849	7.597	15.193	22.790
37	10.445	8.546	5.697	0.000	0.950	0.950	1.899	6.647	14.244	18.042
38	11.395	9.496	1.899	0.950	0.950	0.000	1.899	2.849	6.647	7.597
39	9.496	5.697	1.899	0.000	1.899	1.899	0.950	1.899	1.899	3.798
40	11.395	2.849	1.899	0.000	0.000	2.849	0.950	2.849	1.899	3.798
41	11.395	2.849	1.899	0.000	0.000	2.849	0.000	3.798	3.798	3.798
42	10.445	0.000	0.000	0.950	1.899	0.950	2.849	1.899	3.798	6.647
43	4.748	0.950	0.000	2.849	2.849	0.950	0.000	2.849	5.697	8.546
44	1.899	0.000	0.950	1.899	0.950	1.899	3.798	7.597	7.597	11.395
45	0.950	0.950	0.950	1.899	2.849	2.849	2.849	6.647	12.345	13.294
46	1.899	1.899	0.950	2.849	1.899	2.849	3.798	8.546	14.244	12.345
47	2.849	2.849	5.697	4.748	4.748	6.647	3.798	6.647	15.193	11.395
48	0.950	4.748	6.647	6.647	5.697	6.647	4.748	6.647	12.345	10.445
49	0.950	2.849	7.597	4.748	4.748	4.748	2.849	6.647	12.345	12.345
50	2.849	6.647	8.546	4.748	4.748	5.697	4.748	7.597	10.445	11.395
51	1.899	7.597	8.546	3.798	5.697	4.748	2.849	6.647	7.597	9.496
52	1.899	8.546	5.697	3.798	5.697	2.849	1.899	5.697	6.647	5.697
53	2.849	8.546	3.798	3.798	4.748	3.798	3.798	5.697	8.546	6.647
54	5.697	8.546	3.798	4.748	2.849	0.000	1.899	6.647	6.647	4.748
55	6.647	9.496	6.647	7.597	2.849	0.950	1.899	4.748	5.697	6.647
56	7.597	5.697	7.597	5.697	1.899	2.849	1.899	4.748	6.647	7.597
57	9.496	5.697	4.748	3.798	1.899	2.849	1.899	6.647	9.496	8.546
58	8.546	8.546	3.798	4.748	1.899	0.950	1.899	5.697	8.546	7.597
59	7.597	7.597	2.849	4.748	1.899	2.849	3.798	4.748	8.546	6.647
60	5.697	5.697	6.647	3.798	3.798	2.849	3.798	3.798	8.546	5.697
61	6.647	1.899	7.597	4.748	2.849	1.899	4.748	6.647	6.647	5.697
62	7.597	2.849	7.597	4.748	2.849	3.798	4.748	6.647	9.496	5.697
63	6.647	2.849	4.748	5.697	3.798	3.798	0.950	4.748	7.597	4.748
64	4.748	3.798	4.748	4.748	3.798	2.849	1.899	3.798	4.748	3.798
65	0.950	4.748	5.697	4.748	3.798	2.849	3.798	4.748	4.748	4.748
66	1.899	3.798	3.798	5.697	3.798	1.899	3.798	4.748	6.647	3.798
67	1.899	6.647	2.849	4.748	5.697	3.798	2.849	4.748	6.647	5.697
68	0.950	5.697	4.748	6.647	2.849	0.950	2.849	5.697	7.597	3.798
69	2.849	4.748	6.647	6.647	3.798	2.849	1.899	5.697	6.647	4.748
70	3.798	2.849	6.647	4.748	2.849	4.748	1.899	4.748	5.697	4.748
71	2.849	4.748	3.798	2.849	3.798	1.899	2.849	4.748	4.748	3.798
90	0.000	0.000	0.000	0.000	0.950	0.000	0.000	0.000	0.000	0.000

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	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067	187.067
1	176.622	176.622	174.723	174.723	177.571	177.571	172.824	174.723	176.622	176.622
2	168.076	168.076	165.227	166.176	168.076	165.227	163.328	162.378	163.328	163.328
3	158.580	157.630	154.782	155.731	156.681	153.832	151.933	150.034	150.983	151.933
4	153.832	149.084	149.084	143.387	141.487	141.487	137.689	138.639	136.739	137.689
5	145.286	144.336	142.437	136.739	132.941	132.941	128.193	128.193	126.294	127.244
6	132.941	133.891	132.941	130.092	127.244	123.445	121.546	118.697	117.748	117.748
7	119.647	118.697	119.647	121.546	118.697	114.899	113.950	111.101	110.151	107.303
8	103.504	104.454	107.303	111.101	112.050	110.151	106.353	103.504	101.605	98.756
9	85.462	89.261	93.059	96.857	103.504	104.454	100.655	95.908	93.059	88.311
10	69.319	74.067	79.765	80.714	89.261	92.109	89.261	86.412	81.664	77.866
11	59.824	64.571	70.269	70.269	76.916	77.866	77.866	76.916	74.067	67.420

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CANDELA TABULATION - (Cont.)

12	52.227	55.076	58.874	64.571	65.521	67.420	66.471	68.370	63.622	56.975
13	40.832	45.580	49.378	54.126	56.025	58.874	57.924	56.025	55.076	48.429
14	32.286	36.084	39.882	44.630	46.529	50.328	49.378	46.529	46.529	41.782
15	35.134	36.084	36.084	37.983	40.832	42.731	37.983	36.084	36.084	36.084
16	28.487	30.387	34.185	35.134	36.084	37.034	33.235	30.387	28.487	29.437
17	21.840	25.639	28.487	32.286	30.387	30.387	28.487	26.588	22.790	25.639
18	17.092	18.042	24.689	24.689	24.689	25.639	24.689	22.790	21.840	18.042
19	9.496	9.496	15.193	21.840	19.941	22.790	20.891	18.992	18.042	15.193
20	9.496	8.546	7.597	11.395	14.244	18.042	18.042	15.193	14.244	15.193
21	7.597	8.546	7.597	6.647	7.597	9.496	15.193	15.193	12.345	13.294
22	7.597	7.597	5.697	4.748	4.748	4.748	9.496	15.193	12.345	12.345
23	8.546	4.748	4.748	4.748	5.697	4.748	7.597	11.395	15.193	13.294
24	8.546	5.697	5.697	2.849	4.748	2.849	3.798	5.697	16.143	13.294
25	8.546	6.647	5.697	2.849	2.849	1.899	1.899	3.798	12.345	15.193
26	15.193	9.496	6.647	4.748	1.899	2.849	3.798	0.950	6.647	16.143
27	19.941	15.193	9.496	5.697	2.849	3.798	1.899	0.950	2.849	14.244
28	23.739	22.790	16.143	10.445	4.748	2.849	1.899	2.849	1.899	8.546
29	23.739	21.840	17.092	13.294	6.647	3.798	3.798	0.950	3.798	6.647
30	19.941	18.992	14.244	10.445	10.445	5.697	2.849	0.950	2.849	4.748
31	14.244	18.042	12.345	8.546	8.546	7.597	4.748	0.950	0.950	2.849
32	15.193	12.345	10.445	6.647	6.647	5.697	5.697	2.849	2.849	0.950
33	15.193	12.345	9.496	6.647	6.647	4.748	6.647	4.748	1.899	0.950
34	18.042	16.143	10.445	9.496	5.697	5.697	5.697	4.748	1.899	1.899
35	18.992	16.143	11.395	9.496	4.748	4.748	5.697	5.697	3.798	0.950
36	18.992	15.193	10.445	6.647	8.546	5.697	4.748	5.697	3.798	4.748
37	10.445	7.597	9.496	7.597	6.647	4.748	3.798	6.647	2.849	3.798
38	5.697	1.899	3.798	8.546	5.697	4.748	4.748	4.748	4.748	4.748
39	2.849	1.899	0.000	1.899	6.647	4.748	3.798	3.798	6.647	3.798
40	3.798	0.950	0.950	1.899	2.849	4.748	4.748	3.798	6.647	3.798
41	3.798	1.899	0.950	1.899	0.950	6.647	3.798	5.697	5.697	4.748
42	5.697	2.849	2.849	0.950	0.000	3.798	3.798	4.748	6.647	6.647
43	8.546	4.748	2.849	0.950	1.899	2.849	4.748	5.697	5.697	7.597
44	10.445	6.647	3.798	2.849	0.950	1.899	4.748	5.697	5.697	6.647
45	8.546	5.697	4.748	2.849	2.849	0.950	4.748	5.697	6.647	8.546
46	8.546	7.597	4.748	3.798	0.950	2.849	3.798	7.597	5.697	8.546
47	6.647	3.798	5.697	3.798	3.798	2.849	1.899	5.697	7.597	9.496
48	9.496	4.748	3.798	3.798	2.849	3.798	3.798	5.697	6.647	8.546
49	9.496	6.647	4.748	3.798	3.798	4.748	4.748	3.798	6.647	11.395
50	7.597	4.748	5.697	2.849	5.697	3.798	2.849	6.647	5.697	8.546
51	7.597	5.697	5.697	2.849	4.748	4.748	3.798	4.748	5.697	7.597
52	5.697	3.798	3.798	2.849	4.748	3.798	2.849	4.748	3.798	6.647
53	3.798	2.849	3.798	2.849	4.748	5.697	4.748	3.798	3.798	5.697
54	3.798	2.849	1.899	2.849	2.849	3.798	4.748	4.748	4.748	4.748
55	2.849	3.798	2.849	4.748	6.647	5.697	6.647	3.798	4.748	3.798
56	4.748	3.798	0.950	3.798	4.748	4.748	6.647	2.849	3.798	4.748
57	5.697	2.849	2.849	3.798	5.697	2.849	5.697	3.798	4.748	5.697
58	5.697	3.798	2.849	2.849	4.748	2.849	5.697	2.849	6.647	4.748
59	5.697	4.748	2.849	2.849	3.798	4.748	2.849	5.697	5.697	4.748
60	4.748	2.849	2.849	3.798	4.748	3.798	4.748	4.748	3.798	4.748
61	3.798	2.849	2.849	4.748	3.798	3.798	3.798	3.798	0.950	3.798
62	3.798	3.798	4.748	5.697	3.798	2.849	2.849	3.798	1.899	4.748
63	4.748	2.849	1.899	3.798	4.748	3.798	2.849	1.899	0.950	2.849
64	3.798	2.849	1.899	2.849	3.798	3.798	1.899	2.849	2.849	3.798
65	1.899	3.798	4.748	4.748	3.798	2.849	2.849	1.899	2.849	3.798
66	3.798	2.849	3.798	4.748	2.849	1.899	2.849	1.899	2.849	1.899
67	2.849	2.849	2.849	2.849	1.899	0.950	2.849	3.798	0.950	3.798

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

68	1.899	2.849	3.798	1.899	1.899	3.798	2.849	0.950	2.849	0.000
69	1.899	2.849	1.899	2.849	2.849	1.899	1.899	0.950	1.899	0.950
70	1.899	3.798	1.899	3.798	2.849	0.950	0.950	1.899	2.849	1.899
71	1.899	0.950	2.849	2.849	0.950	0.950	1.899	0.000	0.950	1.899
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	187.067	187.067	187.067	187.067	187.067	187.067	187.067
1	177.571	178.521	177.571	178.521	183.269	183.269	171.874
2	161.429	164.277	164.277	162.378	164.277	166.176	155.731
3	149.084	151.933	150.983	150.034	151.933	152.882	145.286
4	139.588	138.639	138.639	138.639	137.689	138.639	130.092
5	128.193	127.244	127.244	126.294	128.193	129.143	121.546
6	116.798	116.798	116.798	115.849	118.697	118.697	109.202
7	105.403	105.403	105.403	104.454	105.403	104.454	91.160
8	94.008	94.008	92.109	92.109	93.059	92.109	77.866
9	82.613	81.664	79.765	79.765	79.765	79.765	64.571
10	73.118	69.319	68.370	64.571	65.521	67.420	56.975
11	61.723	57.924	55.076	54.126	56.025	55.076	45.580
12	51.277	47.479	46.529	45.580	43.681	43.681	35.134
13	42.731	38.933	39.882	36.084	34.185	37.034	29.437
14	35.134	31.336	33.235	28.487	28.487	29.437	26.588
15	34.185	26.588	23.739	23.739	22.790	22.790	19.941
16	29.437	22.790	20.891	18.992	19.941	18.992	18.042
17	23.739	19.941	17.092	15.193	18.042	17.092	17.092
18	19.941	21.840	18.042	18.042	16.143	18.992	16.143
19	18.042	18.992	16.143	15.193	17.092	16.143	15.193
20	15.193	17.092	15.193	12.345	14.244	15.193	18.992
21	15.193	17.092	16.143	12.345	14.244	18.042	18.992
22	14.244	16.143	16.143	12.345	14.244	18.042	18.042
23	11.395	14.244	17.092	10.445	12.345	14.244	15.193
24	11.395	16.143	15.193	11.395	12.345	15.193	15.193
25	13.294	13.294	15.193	14.244	12.345	16.143	16.143
26	12.345	10.445	17.092	13.294	12.345	12.345	13.294
27	14.244	10.445	16.143	14.244	12.345	12.345	13.294
28	15.193	11.395	12.345	14.244	9.496	13.294	11.395
29	14.244	13.294	11.395	13.294	9.496	12.345	10.445
30	13.294	15.193	12.345	14.244	8.546	11.395	10.445
31	6.647	11.395	10.445	12.345	10.445	10.445	11.395
32	4.748	12.345	10.445	12.345	9.496	9.496	9.496
33	3.798	10.445	10.445	12.345	9.496	9.496	9.496
34	2.849	10.445	9.496	12.345	9.496	9.496	13.294
35	1.899	9.496	11.395	11.395	10.445	9.496	13.294
36	0.950	7.597	10.445	10.445	14.244	8.546	13.294
37	0.000	4.748	9.496	9.496	13.294	9.496	14.244
38	1.899	4.748	10.445	9.496	13.294	12.345	11.395
39	1.899	1.899	8.546	10.445	13.294	8.546	12.345
40	1.899	1.899	7.597	8.546	15.193	8.546	10.445
41	1.899	1.899	8.546	7.597	16.143	8.546	8.546
42	4.748	2.849	9.496	10.445	18.042	7.597	3.798
43	3.798	2.849	6.647	11.395	17.092	6.647	2.849
44	4.748	3.798	8.546	11.395	13.294	7.597	0.000
45	5.697	2.849	6.647	11.395	10.445	5.697	0.000
46	7.597	3.798	6.647	12.345	9.496	5.697	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47	7.597	1.899	3.798	7.597	7.597	4.748	1.899
48	6.647	3.798	3.798	5.697	8.546	4.748	0.950
49	6.647	2.849	5.697	5.697	6.647	2.849	0.000
50	5.697	1.899	4.748	5.697	7.597	2.849	1.899
51	4.748	3.798	5.697	4.748	9.496	3.798	0.950
52	3.798	4.748	4.748	4.748	6.647	3.798	0.950
53	3.798	3.798	5.697	5.697	5.697	2.849	0.950
54	3.798	3.798	4.748	4.748	4.748	3.798	0.950
55	4.748	2.849	2.849	4.748	5.697	3.798	0.000
56	4.748	3.798	2.849	4.748	6.647	3.798	0.000
57	3.798	3.798	2.849	5.697	4.748	2.849	0.950
58	4.748	3.798	3.798	4.748	4.748	1.899	0.950
59	5.697	2.849	3.798	5.697	5.697	1.899	1.899
60	4.748	3.798	0.950	2.849	3.798	2.849	2.849
61	4.748	2.849	0.950	2.849	2.849	1.899	2.849
62	4.748	2.849	1.899	3.798	1.899	2.849	1.899
63	3.798	3.798	0.000	2.849	3.798	1.899	2.849
64	3.798	1.899	0.000	1.899	2.849	1.899	0.000
65	2.849	1.899	0.950	2.849	1.899	0.950	2.849
66	2.849	0.950	0.950	2.849	1.899	2.849	3.798
67	2.849	0.950	2.849	1.899	1.899	0.950	4.748
68	0.950	0.950	0.000	2.849	3.798	2.849	1.899
69	0.000	0.950	0.000	1.899	3.798	3.798	2.849
70	0.950	2.849	0.950	0.950	3.798	2.849	3.798
71	0.950	1.899	1.899	1.899	2.849	0.950	2.849
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	21.90	19.40	48.80
0-30	25.82	22.80	57.50
0-40	30.29	26.80	67.50
0-60	38.73	34.30	86.30
0-80	42.24	37.40	94.10
0-90	44.89	39.70	100.00
10-90	31.66	28.00	70.50
20-40	8.38	7.40	18.70
20-50	12.73	11.30	28.40
40-70	11.68	10.30	26.00
60-80	3.50	3.10	7.80
70-80	0.27	0.20	0.60
80-90	2.66	2.40	5.90
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	44.89	39.70	100.00

Total Luminaire Efficiency = 39.70%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.23
10-20	8.67
20-30	3.92
30-40	4.46
40-50	4.35
50-60	4.10
60-70	3.23
70-80	0.27
80-90	2.66
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

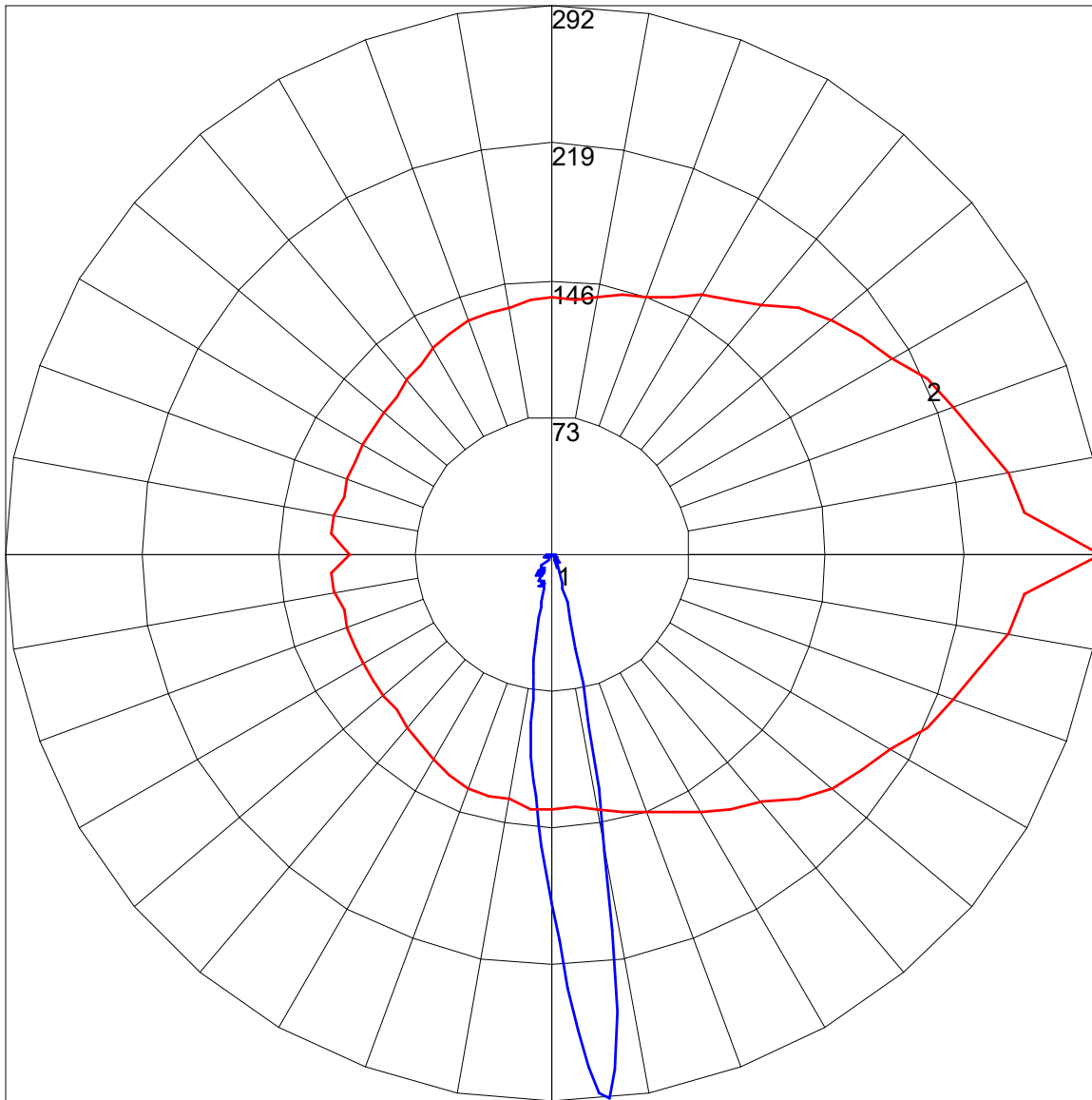
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	47	47	47	47	46	46	46	46	44	44	44	42	42	42	41	41	41	40
1	44	42	41	40	43	41	40	39	40	39	38	38	37	37	37	36	36	35
2	41	39	37	35	40	38	36	35	37	35	34	36	34	33	34	33	32	32
3	39	36	33	32	38	35	33	31	34	32	31	33	32	30	32	31	30	29
4	37	33	31	29	36	33	31	29	32	30	28	31	29	28	30	29	28	27
5	35	31	29	27	34	31	28	27	30	28	26	30	28	26	29	27	26	25
6	33	30	27	25	33	29	27	25	29	26	25	28	26	25	28	26	25	24
7	32	28	26	24	31	28	25	24	27	25	24	27	25	23	26	25	23	23
8	31	27	24	23	30	27	24	23	26	24	23	26	24	22	25	24	22	22
9	30	26	23	22	29	26	23	22	25	23	22	25	23	22	24	23	21	21
10	29	25	22	21	28	25	22	21	24	22	21	24	22	21	24	22	21	20

POLAR GRAPH



Maximum Candela = 292.471 Located At Horizontal Angle = 0, Vertical Angle = 6
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)