



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLEANING LIGHT 12IN 35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041411201
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 05/05/2014
 [MANUFAC] TEMPO
 [LUMCAT] C4R03x-12-3306-120ST35S-NA
 [LUMINAIRE] 2-1/8"L. X 12-1/8"W. X 1-3/8"H. LED T BAR LIGHT
 [MORE] FROSTED LENS
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 24VDC, 12.75W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	12.75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	0.93 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23991	16741	20126
55	13725	13379	20038
65	10354	11884	18381
75	9565	12159	14680
85	9573	10688	12419

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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	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	356.59	355.41	353.73	351.89	349.87	347.35	345.00	342.49	340.30	337.79
10	389.83	386.64	382.11	376.57	370.02	362.13	354.41	346.35	338.29	330.06
15	434.66	428.95	419.71	408.30	394.19	379.59	363.98	348.87	333.92	319.65
20	470.75	462.52	447.92	429.79	408.13	386.98	365.15	343.66	323.01	301.86
25	459.00	448.09	431.30	410.82	386.64	362.80	339.30	316.30	292.46	270.97
30	396.04	386.47	371.87	353.57	332.25	311.60	290.27	268.78	246.79	227.15
35	325.87	317.64	304.71	288.26	269.79	253.00	235.54	218.08	199.45	183.16
40	255.35	248.13	237.89	225.13	211.03	197.60	184.34	170.91	158.82	147.40
45	190.72	185.51	178.29	169.56	159.49	150.59	142.03	133.80	127.09	121.21
50	136.99	134.48	130.62	125.91	120.37	115.84	112.15	108.45	104.76	101.91
55	103.08	101.91	100.23	98.38	96.53	95.02	93.34	91.67	90.49	89.48
60	84.78	84.61	83.44	82.60	81.59	81.59	81.42	80.42	79.07	77.90
65	70.85	70.01	69.34	69.84	71.35	72.86	73.37	73.03	72.02	70.51
70	60.77	60.77	60.77	61.61	63.63	65.81	67.83	68.50	67.83	65.98
75	57.08	57.42	57.59	58.42	59.10	59.77	61.11	62.29	62.29	60.77
80	54.06	54.23	54.56	54.73	54.40	53.22	52.72	53.22	52.72	51.37
85	47.01	47.34	47.85	47.85	47.18	46.67	45.67	45.16	43.99	41.80
90	36.94	37.10	37.61	37.77	37.61	36.94	36.10	34.58	32.91	30.22
95	25.69	25.69	25.85	25.85	25.02	24.01	22.83	21.66	20.15	18.47
100	15.28	15.28	15.28	15.11	14.77	14.10	13.43	12.93	12.26	11.42
105	11.08	11.25	11.42	11.25	10.91	10.58	9.91	9.23	8.73	8.06
110	8.56	8.73	8.73	8.56	8.23	7.72	6.88	6.04	5.54	4.87
115	5.54	5.54	5.37	5.04	4.87	4.53	4.03	3.69	3.36	3.02
120	3.53	3.53	3.53	3.36	3.19	3.02	2.85	2.52	2.18	2.02
125	2.69	2.69	2.52	2.52	2.35	2.18	2.02	1.85	1.51	1.34
130	2.18	2.18	2.02	2.02	1.85	1.68	1.51	1.51	1.34	1.18
135	1.85	1.85	1.68	1.68	1.68	1.51	1.51	1.34	1.18	1.18
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	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>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	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	334.93	332.75	330.57	328.55	326.87	325.36	324.19	323.18	323.01	322.34
10	322.00	314.45	307.90	301.35	295.98	291.45	288.09	285.57	284.23	284.23
15	305.05	292.46	280.20	269.79	260.73	253.00	247.80	243.94	242.09	242.26
20	283.05	265.76	249.48	236.05	224.63	215.06	208.51	204.15	201.97	202.30
25	250.49	232.19	214.56	200.62	189.54	180.98	175.44	172.25	170.74	170.74
30	209.02	192.90	178.29	168.22	160.33	155.13	152.10	150.09	148.75	148.75
35	169.40	158.32	149.59	143.37	138.17	134.98	133.80	132.97	132.97	133.64
40	137.67	131.45	126.92	124.07	121.72	119.37	118.19	117.35	118.02	118.19
45	116.18	111.64	108.96	107.78	106.27	104.93	103.92	103.42	103.75	104.93
50	99.89	96.87	93.85	92.17	91.67	90.83	91.16	91.67	92.51	93.18
55	87.80	85.62	83.10	80.59	80.08	81.93	83.94	85.29	85.62	84.45
60	76.39	74.04	71.86	71.35	71.86	71.69	71.69	72.53	73.37	73.37

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CANDELA TABULATION - (Cont.)

65	67.83	64.80	63.29	62.62	60.94	59.43	59.10	59.60	59.94	60.44
70	62.79	58.76	56.75	54.06	51.04	48.69	48.02	47.51	47.18	47.51
75	57.42	53.89	50.53	46.50	42.64	39.45	36.77	33.41	31.56	32.23
80	48.69	45.83	42.98	38.78	34.42	30.22	25.18	21.83	20.48	20.82
85	38.28	35.09	32.40	29.55	26.02	21.66	16.79	13.93	12.09	13.26
90	26.86	24.34	22.33	20.48	17.46	13.77	10.58	8.23	6.38	8.06
95	16.29	14.61	12.93	11.42	9.74	7.72	5.88	4.53	4.53	4.53
100	10.41	9.23	8.06	6.72	5.20	3.86	2.85	2.85	3.02	2.69
105	7.22	5.88	4.70	3.69	2.69	2.02	1.68	1.85	2.02	1.85
110	4.20	3.53	2.85	2.18	1.68	1.34	1.34	1.51	1.51	1.34
115	2.69	2.35	1.85	1.51	1.34	1.34	1.34	1.34	1.34	1.18
120	1.68	1.51	1.34	1.18	1.18	1.01	0.84	1.01	1.01	0.84
125	1.18	1.01	1.01	1.01	1.01	0.84	0.67	0.67	0.84	0.67
130	1.01	1.01	1.01	1.01	1.01	0.84	0.84	0.84	0.84	0.84
135	1.18	1.01	1.01	1.01	1.01	1.01	1.01	0.84	1.01	1.01
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	322.51	323.01	323.85	325.03	326.37	328.22	330.06	332.08	334.09	336.11
10	285.41	287.59	290.44	294.47	299.51	305.72	311.93	318.81	326.03	334.43
15	243.60	246.96	252.33	259.38	268.45	279.53	291.95	305.55	319.49	335.43
20	204.65	209.69	217.08	227.32	240.41	254.51	270.30	287.92	306.39	328.22
25	172.92	177.79	185.18	194.75	208.01	222.78	239.74	258.88	280.03	304.04
30	150.76	154.29	159.49	166.04	174.77	186.19	200.46	217.92	237.73	260.05
35	134.81	137.16	139.35	143.04	148.41	155.13	164.70	176.45	192.90	210.70
40	119.20	121.55	123.40	125.91	128.26	131.79	136.83	144.89	154.96	167.21
45	106.10	107.61	108.45	109.80	111.98	114.83	117.52	121.05	125.91	132.80
50	94.18	95.53	95.86	95.86	97.37	99.72	102.24	104.76	106.10	108.29
55	83.61	83.61	84.28	84.78	85.62	86.63	88.48	90.15	91.33	92.17
60	73.37	73.03	72.36	72.86	73.87	74.37	75.05	76.22	77.40	78.57
65	60.44	60.44	60.94	62.12	63.13	63.80	65.14	67.15	68.67	70.68
70	48.18	48.69	49.86	51.71	54.06	56.41	58.42	61.11	63.96	65.81
75	34.58	37.94	40.80	43.31	46.67	50.20	53.39	56.24	58.42	59.94
80	23.17	27.87	32.07	35.59	38.95	42.14	44.99	47.85	50.03	51.21
85	15.45	19.64	24.18	27.03	29.21	31.40	34.25	37.10	39.79	41.80
90	10.07	12.93	16.62	18.64	20.48	22.16	24.34	26.53	28.54	30.72
95	5.54	7.22	9.23	10.91	12.42	13.77	15.45	16.79	18.13	19.64
100	2.69	3.53	4.70	6.04	7.39	8.56	9.74	10.91	11.92	12.76
105	1.68	1.68	2.35	3.36	4.20	5.20	6.21	7.22	8.06	8.90
110	1.18	1.18	1.34	1.85	2.52	3.19	3.86	4.37	4.87	5.71
115	1.18	1.18	1.18	1.18	1.51	2.02	2.52	2.85	3.02	3.36
120	0.84	1.01	1.18	1.18	1.18	1.34	1.51	1.85	2.02	2.35
125	0.84	1.01	1.18	1.18	1.01	1.01	1.18	1.18	1.51	1.68
130	0.84	0.84	1.01	1.01	1.01	1.01	1.01	1.18	1.18	1.34
135	1.01	1.01	1.01	1.01	1.18	1.18	1.18	1.18	1.34	1.34

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CANDELA TABULATION - (Cont.)

140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	338.12	339.80	341.81	343.16	344.50	346.18	347.02	347.69	348.03	348.03
10	342.15	349.20	356.42	362.30	367.33	371.36	373.88	375.06	375.22	373.71
15	350.04	364.65	379.92	392.85	404.44	414.01	419.55	421.39	419.71	415.01
20	348.70	370.19	392.52	412.66	430.96	446.24	455.81	459.84	457.49	449.43
25	326.20	349.37	375.06	398.39	420.89	442.04	456.31	463.20	460.85	450.10
30	281.88	304.38	328.55	352.06	375.39	397.72	413.84	421.56	419.55	407.46
35	230.84	251.32	273.65	294.81	315.29	334.43	347.69	354.07	350.54	339.13
40	181.65	198.10	215.90	233.36	249.48	264.08	274.66	279.03	275.84	266.60
45	141.70	151.77	162.18	173.76	185.68	196.43	203.31	205.49	202.47	195.92
50	111.64	116.68	121.72	127.59	132.97	138.34	142.20	144.05	142.70	139.18
55	92.84	94.18	95.36	97.04	99.05	101.40	102.75	103.42	102.91	101.91
60	79.07	79.91	80.59	80.92	81.42	82.10	82.94	83.44	83.27	82.94
65	72.02	72.86	73.53	73.20	72.36	71.52	71.35	70.85	70.51	71.18
70	67.49	68.16	68.16	67.32	64.97	63.13	62.29	62.12	61.78	62.12
75	60.94	61.61	61.78	60.94	59.60	59.43	59.10	59.43	60.10	59.26
80	52.55	53.39	54.56	55.23	55.07	55.40	55.74	56.41	57.08	56.41
85	43.65	45.16	46.00	46.00	45.33	45.16	45.67	46.50	47.85	47.34
90	32.74	34.25	35.93	36.77	37.10	37.27	37.27	38.11	38.95	38.61
95	21.15	22.50	23.67	24.68	25.02	25.18	25.69	26.36	26.69	26.19
100	13.43	14.27	14.94	15.45	15.61	15.61	15.61	15.78	16.12	15.95
105	9.57	10.41	10.91	11.42	11.75	11.75	11.75	12.09	11.92	11.58
110	6.55	7.22	7.89	8.39	8.90	9.23	9.23	9.40	9.23	8.73
115	3.69	4.03	4.53	4.87	5.04	5.37	5.37	5.37	5.20	4.87
120	2.52	2.69	2.85	3.02	3.19	3.19	3.19	3.19	3.19	3.02
125	1.85	2.02	2.18	2.35	2.35	2.35	2.35	2.35	2.35	2.18
130	1.51	1.68	1.68	1.85	1.85	1.85	1.85	1.85	1.85	1.68
135	1.51	1.51	1.51	1.68	1.68	1.68	1.68	1.68	1.51	1.51
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	347.86	347.52	347.02	346.35	345.51	344.67	343.66	342.82	342.32	341.81

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CANDELA TABULATION - (Cont.)

10	370.86	367.17	362.30	356.59	350.54	344.33	338.46	333.08	328.38	323.68
15	407.46	397.38	384.96	370.36	355.92	341.98	327.38	314.95	303.70	293.63
20	436.00	418.37	398.06	374.72	352.73	331.74	310.25	292.29	276.17	260.73
25	431.97	409.30	384.12	356.25	331.07	307.06	283.89	262.91	243.43	225.81
30	387.65	364.81	341.31	315.62	291.28	267.27	243.77	223.46	204.82	188.70
35	322.34	303.54	282.38	261.57	239.91	218.42	197.27	180.31	167.89	157.81
40	253.17	236.89	220.27	203.81	187.36	171.41	156.64	146.40	138.34	132.80
45	186.86	175.94	165.37	154.79	144.72	135.65	127.43	121.72	117.35	114.33
50	134.14	129.10	124.57	119.37	114.50	110.13	107.95	105.10	101.40	98.55
55	100.40	98.55	97.04	96.20	95.86	95.02	93.68	91.50	89.15	86.46
60	81.93	81.26	81.26	81.09	80.59	80.42	79.41	77.73	75.88	74.88
65	72.36	73.03	72.69	72.19	71.02	69.84	67.83	65.48	64.47	65.48
70	63.96	65.81	67.49	67.66	66.82	64.47	61.11	58.26	57.42	57.25
75	59.10	59.26	60.27	61.11	61.28	60.10	57.25	54.23	52.55	49.86
80	54.40	52.88	52.88	52.88	52.88	51.88	49.69	47.01	45.16	41.64
85	46.67	46.00	45.50	45.33	44.99	43.31	40.29	36.77	33.91	31.23
90	37.94	37.44	36.43	35.42	33.75	31.40	28.37	25.18	22.66	20.82
95	25.02	24.18	23.17	21.99	20.65	18.80	17.12	15.28	13.26	11.75
100	15.28	14.61	14.27	13.93	13.43	12.59	11.58	10.24	8.73	7.39
105	11.08	10.58	10.41	10.24	9.74	9.07	7.72	6.21	4.70	3.69
110	8.23	7.56	7.05	6.38	5.54	4.87	4.03	3.36	2.69	2.02
115	4.53	4.20	3.86	3.36	3.02	2.85	2.35	2.02	1.51	1.18
120	2.85	2.69	2.52	2.18	2.02	1.68	1.51	1.18	1.01	1.01
125	2.02	1.85	1.68	1.51	1.34	1.18	1.01	0.84	0.84	1.01
130	1.68	1.51	1.34	1.18	1.01	1.01	0.84	0.84	0.84	0.84
135	1.51	1.34	1.34	1.18	1.18	1.01	1.01	1.01	1.01	0.84
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	341.31	340.98	340.64	340.81	340.98	341.48	342.32	343.16	344.33	345.84
10	320.16	317.47	315.96	315.62	315.96	317.47	319.65	323.18	327.54	332.58
15	285.91	280.03	276.17	273.82	273.82	276.17	280.70	287.08	294.64	304.21
20	248.97	239.57	232.69	228.66	227.82	230.34	235.54	244.78	256.03	269.62
25	212.38	201.80	193.74	189.54	188.37	190.05	194.75	202.97	214.39	229.00
30	177.29	169.73	163.69	160.33	159.16	158.99	162.01	168.56	177.46	189.37
35	150.09	144.05	140.86	139.35	138.34	138.67	140.18	143.37	148.41	155.63
40	128.77	126.08	124.24	122.89	122.56	122.72	122.56	123.90	126.75	130.62
45	112.15	110.64	109.13	108.62	108.29	108.12	108.79	108.79	109.63	111.31
50	97.37	96.37	95.53	95.19	95.53	95.53	96.03	96.03	96.87	97.54
55	85.29	85.62	86.96	87.64	87.13	86.13	84.95	84.11	84.95	85.79
60	75.88	75.72	75.55	75.88	76.05	75.72	74.88	73.70	73.20	73.70
65	65.14	63.96	63.46	63.29	62.96	63.29	63.29	62.96	62.79	63.46
70	55.07	52.55	51.71	51.37	50.37	50.37	50.70	51.71	52.88	54.56
75	46.17	42.98	39.79	36.10	34.25	34.92	37.44	40.96	44.66	47.85
80	37.94	33.24	27.37	23.67	21.83	22.16	25.35	30.56	35.76	40.46

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

85	28.54	23.84	18.80	14.94	12.42	13.43	16.12	20.48	26.36	30.05
90	18.64	14.94	12.26	9.23	7.22	8.73	10.58	13.77	17.46	20.15
95	10.41	8.90	6.21	4.87	5.04	5.04	6.04	7.89	10.07	11.75
100	5.37	3.86	2.85	3.02	3.19	3.02	3.02	4.03	5.37	6.88
105	2.52	1.85	1.68	1.85	1.85	1.85	1.68	1.85	2.69	3.69
110	1.34	1.18	1.18	1.34	1.34	1.18	1.18	1.18	1.34	2.02
115	1.01	1.18	1.18	1.18	1.18	1.18	1.01	1.01	1.01	1.18
120	1.01	0.84	0.84	0.84	0.84	0.84	0.84	1.01	1.01	1.01
125	1.01	0.84	0.67	0.67	0.84	0.67	0.67	0.84	1.01	1.01
130	0.84	0.84	0.67	0.67	0.67	0.67	0.84	0.84	1.01	1.01
135	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.01	1.01
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	300	305	310	315	320	325	330	335	340	345
0	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58	342.58
5	347.35	348.87	350.38	351.89	353.40	354.74	355.75	356.76	357.26	357.60
10	338.96	344.67	351.72	358.60	365.49	371.87	377.74	382.95	387.14	390.17
15	315.96	328.38	342.49	356.42	371.19	385.13	398.73	410.82	421.90	429.79
20	285.74	302.70	322.84	342.82	364.48	385.63	406.95	427.60	444.06	457.99
25	247.46	266.94	289.43	312.10	335.94	359.11	382.61	406.11	425.76	442.38
30	204.65	221.78	242.26	263.08	285.07	306.39	327.38	346.01	363.81	379.09
35	166.21	177.79	192.90	209.52	226.65	244.94	262.40	279.86	296.82	310.76
40	136.32	143.71	154.29	165.20	177.46	192.40	206.67	220.27	233.36	244.27
45	114.50	119.53	125.24	131.96	138.84	147.57	157.31	167.05	175.44	184.34
50	99.39	102.58	105.94	109.63	112.82	116.34	120.54	125.07	130.11	134.48
55	87.30	89.15	92.00	94.18	95.36	96.03	97.37	99.39	101.40	103.08
60	75.55	77.06	78.40	79.41	80.59	81.76	83.10	84.11	84.61	84.61
65	65.14	66.82	68.83	70.85	72.02	73.20	73.87	74.21	74.21	73.53
70	57.08	60.27	62.96	65.48	67.32	68.16	68.67	69.00	68.33	66.65
75	51.21	55.07	58.59	60.94	62.12	62.62	62.62	62.62	61.78	59.94
80	44.15	47.34	50.03	52.04	53.39	53.89	54.90	55.23	55.74	55.57
85	33.24	35.93	38.78	41.64	43.99	45.50	46.50	47.18	48.18	48.69
90	22.33	24.51	27.20	29.88	32.40	34.42	36.10	37.44	38.61	38.61
95	13.26	14.77	16.62	18.13	19.81	21.49	23.00	24.68	25.85	26.53
100	8.23	9.40	10.58	11.58	12.42	13.26	13.93	14.94	15.78	16.12
105	4.70	5.71	6.88	7.89	8.73	9.40	9.91	10.58	11.08	11.42
110	2.69	3.36	4.03	4.70	5.37	6.21	6.88	7.56	8.06	8.39
115	1.68	2.18	2.69	3.02	3.36	3.69	4.03	4.53	4.87	5.20
120	1.18	1.34	1.68	2.02	2.18	2.52	2.69	3.02	3.19	3.36
125	1.01	1.01	1.18	1.34	1.51	1.85	2.02	2.18	2.35	2.52
130	0.84	0.84	1.01	1.18	1.34	1.51	1.68	1.85	1.85	2.02
135	1.01	1.01	1.01	1.18	1.18	1.34	1.51	1.51	1.68	1.68
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	350	355	360
0	342.58	342.58	342.58
5	357.76	357.26	356.59
10	391.51	391.51	389.83
15	434.99	436.50	434.66
20	468.06	472.93	470.75
25	454.97	460.85	459.00
30	391.51	397.89	396.04
35	321.33	327.04	325.87
40	252.84	256.53	255.35
45	190.55	192.06	190.72
50	137.16	138.17	136.99
55	103.59	103.75	103.08
60	84.61	84.95	84.78
65	72.69	71.86	70.85
70	64.13	61.95	60.77
75	58.59	57.59	57.08
80	55.40	55.07	54.06
85	48.02	47.34	47.01
90	38.28	37.44	36.94
95	26.53	26.02	25.69
100	16.12	15.61	15.28
105	11.58	11.25	11.08
110	8.73	8.73	8.56
115	5.54	5.54	5.54
120	3.53	3.53	3.53
125	2.69	2.69	2.69
130	2.02	2.18	2.18
135	1.85	1.85	1.85
140	0.00	0.00	0.00
145	0.00	0.00	0.00
150	0.00	0.00	0.00
155	0.00	0.00	0.00
160	0.00	0.00	0.00
165	0.00	0.00	0.00
170	0.00	0.00	0.00
175	0.00	0.00	0.00
180	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	127.31	N.A.	16.20
0-30	264.23	N.A.	33.60
0-40	399.18	N.A.	50.80
0-60	591.03	N.A.	75.20
0-80	714.38	N.A.	90.80
0-90	753.69	N.A.	95.80
10-90	721.14	N.A.	91.70
20-40	271.87	N.A.	34.60
20-50	380.25	N.A.	48.40
40-70	259.63	N.A.	33.00
60-80	123.36	N.A.	15.70
70-80	55.57	N.A.	7.10
80-90	39.31	N.A.	5.00
90-110	27.28	N.A.	3.50
90-120	30.48	N.A.	3.90
90-130	31.90	N.A.	4.10
90-150	32.64	N.A.	4.20
90-180	32.64	N.A.	4.20
110-180	5.36	N.A.	0.70
0-180	786.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.55
10-20	94.76
20-30	136.92
30-40	134.95
40-50	108.38
50-60	83.46
60-70	67.79
70-80	55.57
80-90	39.31
90-100	19.47
100-110	7.81
110-120	3.20
120-130	1.42
130-140	0.74
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

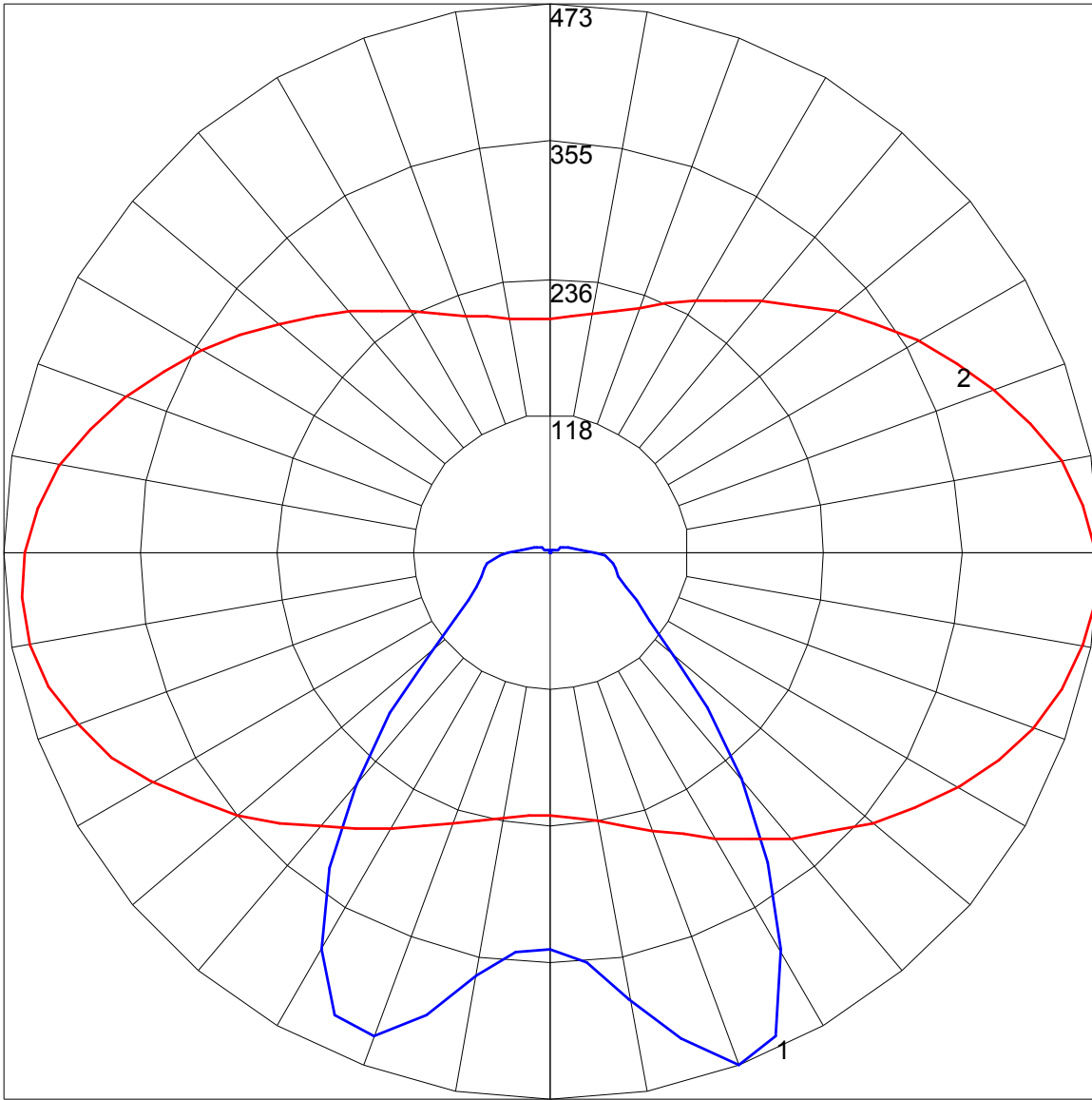
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC 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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	99	95	92	94	91	88	90	87	85	86	83	81	79
2	98	90	83	77	95	88	81	76	83	78	74	79	75	71	76	72	69	67
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	68	64	60	58
4	83	72	63	57	81	70	62	56	67	60	55	64	58	54	62	57	53	50
5	77	65	56	50	75	63	55	49	61	54	48	58	52	47	56	51	47	44
6	72	59	50	44	69	58	50	44	56	48	43	53	47	42	52	46	42	40
7	67	54	46	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	50	41	36	61	49	41	36	47	40	35	46	39	35	44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32	42	36	32	41	35	31	30
10	55	43	35	30	54	42	35	30	41	34	29	39	33	29	38	33	29	27

POLAR GRAPH



Maximum Candela = 472.93 Located At Horizontal Angle = 355, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (355 - 175) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)