

IES INDOOR REPORT

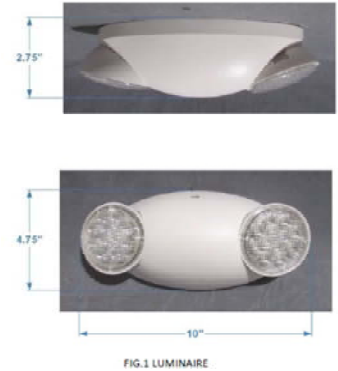
PHOTOMETRIC FILENAME : L091504602_FHEM10W-H.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L091504602
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 9/21/2015
 [MANUFAC] FULHAM
 [LUMCAT] FHEM10W-H
 [LUMINAIRE] EXIT SIGNS HIGH LUMEN OUTPUT 12 LED Heads
 [MORE] SIZE: 4.75"L. X 10"W. X 2.75"H.
 [BALLASTCAT] N/A
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [POWER SUPPLY] 3.6VDC CONSTANT VOLTAGE SOURCE
 [INPUT] 3.6VDC, 3.28W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	3.28
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.08 ft



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	475	1389	3899
55	238	438	1223
65	161	210	418
75	124	149	287
85	112	135	328

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>
0.0	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62
5.0	243.45	243.77	244.30	245.01	245.45	246.40	248.25	250.21	252.01	253.35
10.0	217.09	218.20	220.98	224.89	228.45	233.04	237.67	241.99	246.20	250.29
15.0	177.08	178.51	181.91	187.02	192.50	198.72	205.88	212.73	219.30	224.78
20.0	127.46	128.16	131.96	138.08	144.07	148.83	156.62	166.69	177.80	190.72
25.0	83.82	84.19	85.71	90.05	95.18	101.57	110.97	122.23	134.31	147.50
30.0	53.70	54.38	57.06	59.55	63.85	69.45	76.77	85.84	96.06	105.95
35.0	28.60	29.21	31.08	34.37	38.28	42.81	48.91	55.48	61.81	69.32
37.5	20.99	21.31	22.57	24.74	27.70	32.23	38.19	43.59	49.93	56.29
40.0	14.64	15.64	16.37	17.80	20.60	23.88	27.44	33.00	38.28	43.73
42.5	11.21	11.41	12.13	13.11	14.69	16.93	19.77	23.86	28.51	33.00
45.0	8.56	8.81	9.31	10.02	11.06	12.14	14.77	17.12	21.09	24.54
47.5	6.32	6.52	6.84	7.59	8.54	9.27	10.56	12.80	14.93	17.73
50.0	5.23	5.33	5.43	5.81	6.35	7.13	7.91	9.02	10.95	12.60
52.5	4.62	4.57	4.60	4.76	5.04	5.55	6.22	6.64	7.80	9.26
55.0	3.84	3.91	4.03	4.08	4.23	4.43	4.98	5.45	5.98	6.89
57.5	3.29	3.28	3.40	3.53	3.65	3.80	3.99	4.36	4.70	5.11
60.0	2.89	2.87	2.94	2.97	3.09	3.24	3.35	3.53	3.74	4.08
62.5	2.51	2.55	2.58	2.60	2.67	2.75	2.96	3.02	3.16	3.40
65.0	2.21	2.24	2.26	2.28	2.31	2.41	2.50	2.60	2.67	2.80
67.5	1.94	1.95	1.97	2.00	2.02	2.07	2.14	2.24	2.29	2.36
70.0	1.73	1.73	1.75	1.77	1.78	1.82	1.89	1.94	1.99	2.04
72.5	1.53	1.53	1.56	1.55	1.58	1.61	1.66	1.68	1.75	1.77
75.0	1.36	1.36	1.38	1.39	1.41	1.41	1.46	1.48	1.51	1.56
77.5	1.22	1.22	1.22	1.24	1.24	1.26	1.27	1.31	1.36	1.38
80.0	1.09	1.09	1.07	1.07	1.09	1.12	1.14	1.17	1.21	1.24
85.0	0.88	0.87	0.90	0.90	0.90	0.92	0.93	0.93	0.99	0.99
90.0	0.75	0.75	0.76	0.76	0.75	0.76	0.76	0.78	0.82	0.82
95.0	0.65	0.66	0.66	0.66	0.66	0.66	0.68	0.68	0.68	0.68
100.0	0.61	0.61	0.63	0.63	0.63	0.59	0.61	0.59	0.59	0.59
105.0	0.58	0.61	0.61	0.59	0.58	0.56	0.56	0.54	0.54	0.53
110.0	0.58	0.58	0.58	0.58	0.56	0.56	0.56	0.54	0.53	0.53
115.0	0.58	0.56	0.56	0.54	0.54	0.53	0.53	0.53	0.51	0.49
120.0	0.54	0.54	0.56	0.54	0.53	0.53	0.53	0.53	0.51	0.49
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	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>
0.0	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62
5.0	254.79	256.22	257.49	259.07	260.24	261.38	262.11	262.42	263.08	263.33
10.0	254.23	258.53	261.70	266.07	271.19	275.97	279.06	281.49	283.86	284.39
15.0	230.00	236.86	244.98	255.13	263.76	272.50	278.60	283.34	285.92	286.83

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CANDELA TABULATION - (Cont.)

20.0	202.22	213.97	223.17	230.35	238.40	248.81	258.44	266.47	270.91	272.08
25.0	160.99	177.98	194.00	203.59	208.89	217.16	227.62	240.88	248.41	247.37
30.0	118.16	134.17	146.79	156.42	162.33	166.78	176.32	190.36	199.84	200.62
35.0	80.51	88.34	96.51	104.45	112.18	118.04	123.08	132.88	136.38	135.56
37.5	63.31	71.58	78.29	84.36	92.74	98.58	103.40	108.00	111.99	112.10
40.0	49.47	56.65	62.70	69.52	75.45	81.85	85.35	88.78	92.86	93.87
42.5	37.99	43.56	48.92	54.15	60.01	63.80	66.79	71.92	74.89	76.62
45.0	28.41	32.54	36.39	39.31	44.81	50.21	53.32	56.06	58.33	60.34
47.5	20.40	23.38	26.56	29.94	33.79	36.75	40.09	42.35	44.56	46.31
50.0	14.84	16.68	19.10	22.67	24.69	26.32	28.78	31.38	33.35	34.64
52.5	10.85	11.97	13.53	15.49	17.51	19.46	20.34	21.53	23.03	24.52
55.0	7.80	8.70	9.48	10.63	11.62	12.70	13.82	14.28	15.40	16.27
57.5	5.67	6.15	6.71	7.37	7.57	8.58	8.98	9.66	10.12	10.51
60.0	4.28	4.69	4.98	5.25	5.54	5.99	6.15	6.39	6.81	7.00
62.5	3.52	3.75	3.79	4.08	4.26	4.43	4.65	4.82	5.15	5.23
65.0	2.89	2.96	3.09	3.31	3.50	3.57	3.77	3.99	4.11	4.19
67.5	2.45	2.50	2.60	2.70	2.85	3.02	3.14	3.23	3.29	3.33
70.0	2.11	2.16	2.26	2.33	2.46	2.50	2.58	2.67	2.75	2.79
72.5	1.83	1.87	1.94	2.02	2.06	2.14	2.23	2.26	2.31	2.31
75.0	1.60	1.65	1.70	1.73	1.78	1.87	1.90	1.92	1.95	1.97
77.5	1.41	1.46	1.49	1.55	1.55	1.60	1.65	1.68	1.72	1.72
80.0	1.27	1.29	1.31	1.33	1.36	1.39	1.44	1.46	1.48	1.49
85.0	1.00	1.02	1.04	1.05	1.05	1.09	1.10	1.14	1.16	1.17
90.0	0.83	0.83	0.85	0.83	0.85	0.85	0.88	0.88	0.90	0.92
95.0	0.70	0.68	0.70	0.68	0.68	0.71	0.71	0.71	0.73	0.73
100.0	0.59	0.59	0.59	0.58	0.59	0.58	0.59	0.59	0.59	0.59
105.0	0.51	0.51	0.51	0.49	0.49	0.49	0.49	0.49	0.51	0.51
110.0	0.51	0.49	0.49	0.48	0.48	0.46	0.46	0.46	0.46	0.48
115.0	0.49	0.49	0.48	0.48	0.46	0.46	0.46	0.44	0.46	0.46
120.0	0.49	0.48	0.46	0.48	0.48	0.46	0.46	0.46	0.46	0.48
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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>
0.0	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62	255.62
5.0	263.60	263.74	263.59	263.20	263.04	262.40	261.23	259.92	258.92	257.90
10.0	285.00	284.80	283.18	280.48	275.86	270.92	266.49	261.18	254.89	248.52
15.0	286.12	283.22	279.84	273.61	267.63	260.02	252.70	244.16	235.31	226.18
20.0	269.80	265.83	258.26	249.03	238.59	227.65	220.51	213.66	206.16	198.43
25.0	245.01	240.75	232.82	221.20	208.33	199.04	191.76	182.94	169.24	154.23
30.0	199.07	197.39	191.98	182.87	174.32	167.90	157.47	141.17	125.00	110.86
35.0	137.02	138.40	135.77	132.49	131.10	126.12	113.88	97.13	86.57	78.40
37.5	112.89	113.06	111.11	109.19	107.39	102.77	92.89	80.19	71.63	65.09
40.0	93.69	93.69	91.55	88.93	85.98	81.19	73.60	65.23	59.16	52.76

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CANDELA TABULATION - (Cont.)

42.5	78.10	77.49	75.52	72.44	68.08	63.17	58.37	52.54	47.53	41.06
45.0	61.54	61.42	59.23	57.21	53.49	49.23	45.36	41.01	36.05	31.03
47.5	46.65	46.31	44.63	43.85	41.76	39.11	35.46	31.42	27.44	23.72
50.0	35.14	34.86	33.98	33.91	31.54	28.89	26.30	23.21	20.29	17.92
52.5	25.59	25.93	24.98	24.11	23.10	21.30	19.44	17.73	15.30	13.43
55.0	17.10	17.59	17.68	17.02	16.13	15.73	14.18	12.69	11.48	9.58
57.5	11.36	11.43	11.79	12.07	11.82	11.21	10.21	9.37	8.42	7.05
60.0	7.30	7.54	8.10	8.12	8.29	8.02	7.39	7.08	6.23	5.50
62.5	5.33	5.49	5.74	5.74	5.64	5.72	5.45	5.28	4.70	4.26
65.0	4.25	4.23	4.25	4.28	4.28	4.16	4.13	4.06	3.70	3.33
67.5	3.33	3.45	3.57	3.38	3.31	3.26	3.14	3.14	3.07	2.84
70.0	2.79	2.73	2.80	2.84	2.73	2.70	2.63	2.60	2.53	2.41
72.5	2.34	2.41	2.38	2.34	2.36	2.26	2.29	2.24	2.16	2.09
75.0	1.99	2.00	2.04	2.07	2.02	2.00	1.95	1.94	1.89	1.85
77.5	1.72	1.73	1.72	1.73	1.75	1.75	1.73	1.66	1.66	1.63
80.0	1.51	1.49	1.49	1.51	1.51	1.51	1.51	1.48	1.46	1.46
85.0	1.17	1.17	1.19	1.19	1.21	1.19	1.21	1.19	1.19	1.17
90.0	0.93	0.93	0.95	0.95	0.97	0.97	0.99	0.97	0.97	0.97
95.0	0.75	0.75	0.76	0.76	0.80	0.80	0.82	0.82	0.85	0.83
100.0	0.61	0.63	0.65	0.65	0.65	0.68	0.68	0.71	0.71	0.71
105.0	0.51	0.54	0.56	0.56	0.59	0.61	0.61	0.65	0.66	0.66
110.0	0.49	0.49	0.51	0.53	0.54	0.54	0.58	0.58	0.58	0.61
115.0	0.48	0.48	0.49	0.49	0.51	0.53	0.54	0.58	0.58	0.59
120.0	0.48	0.48	0.49	0.49	0.51	0.53	0.54	0.56	0.58	0.58
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	255.62	255.62	255.62	255.62	255.62	255.62	255.62
5.0	256.93	256.03	254.79	253.65	252.99	252.41	252.21
10.0	242.56	237.03	232.07	228.61	226.31	224.94	224.39
15.0	217.62	209.52	201.62	194.37	189.84	187.34	186.90
20.0	189.04	179.05	168.41	159.22	151.80	148.23	147.60
25.0	141.22	129.81	119.31	112.28	108.73	107.56	107.70
30.0	100.80	91.72	84.91	78.06	72.75	70.61	70.98
35.0	69.79	62.66	55.84	50.23	46.41	43.80	42.39
37.5	57.48	50.88	44.59	39.19	36.39	33.44	32.30
40.0	45.56	39.64	35.02	30.38	27.32	24.78	23.67
42.5	35.29	31.20	26.07	22.20	20.09	18.34	18.24
45.0	27.22	23.18	19.56	17.32	15.00	14.54	12.06
47.5	20.45	17.30	15.22	12.67	10.41	9.54	9.31
50.0	15.28	13.35	10.53	8.83	8.10	7.64	7.40
52.5	11.77	9.70	7.71	7.17	6.54	6.11	6.18
55.0	8.47	6.81	6.28	5.69	5.23	4.99	4.93

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CANDELA TABULATION - (Cont.)

57.5	5.99	5.35	4.99	4.60	4.36	4.26	4.31
60.0	4.65	4.36	4.08	3.86	3.75	3.62	3.57
62.5	3.91	3.58	3.46	3.35	3.19	3.14	3.13
65.0	3.21	3.07	2.99	2.84	2.79	2.79	2.75
67.5	2.70	2.65	2.55	2.48	2.45	2.45	2.41
70.0	2.36	2.29	2.24	2.21	2.17	2.17	2.17
72.5	2.04	2.04	1.99	1.95	1.95	1.95	1.94
75.0	1.80	1.78	1.77	1.73	1.73	1.73	1.73
77.5	1.61	1.60	1.56	1.55	1.55	1.53	1.53
80.0	1.43	1.39	1.41	1.39	1.39	1.36	1.36
85.0	1.16	1.14	1.12	1.12	1.12	1.12	1.16
90.0	0.95	0.95	0.95	0.95	0.95	0.93	0.92
95.0	0.82	0.82	0.80	0.82	0.82	0.82	0.82
100.0	0.73	0.75	0.75	0.75	0.73	0.73	0.75
105.0	0.68	0.68	0.70	0.70	0.68	0.70	0.68
110.0	0.63	0.63	0.66	0.66	0.66	0.68	0.68
115.0	0.63	0.63	0.65	0.65	0.65	0.65	0.65
120.0	0.59	0.61	0.61	0.61	0.63	0.63	0.65
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L091504602_FHEM10W-H.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	89.31	N.A.	33.80
0-30	164.77	N.A.	62.40
0-40	219.17	N.A.	83.00
0-60	255.37	N.A.	96.70
0-80	260.67	N.A.	98.80
0-90	261.86	N.A.	99.20
10-90	237.50	N.A.	90.00
20-40	129.86	N.A.	49.20
20-50	156.57	N.A.	59.30
40-70	39.62	N.A.	15.00
60-80	5.30	N.A.	2.00
70-80	1.88	N.A.	0.70
80-90	1.20	N.A.	0.50
90-110	1.44	N.A.	0.50
90-120	1.97	N.A.	0.70
90-130	2.10	N.A.	0.80
90-150	2.10	N.A.	0.80
90-180	2.10	N.A.	0.80
110-180	0.65	N.A.	0.20
0-180	263.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.37
10-20	64.94
20-30	75.47
30-40	54.40
40-50	26.71
50-60	9.49
60-70	3.42
70-80	1.88
80-90	1.20
90-100	0.82
100-110	0.62
110-120	0.53
120-130	0.12
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

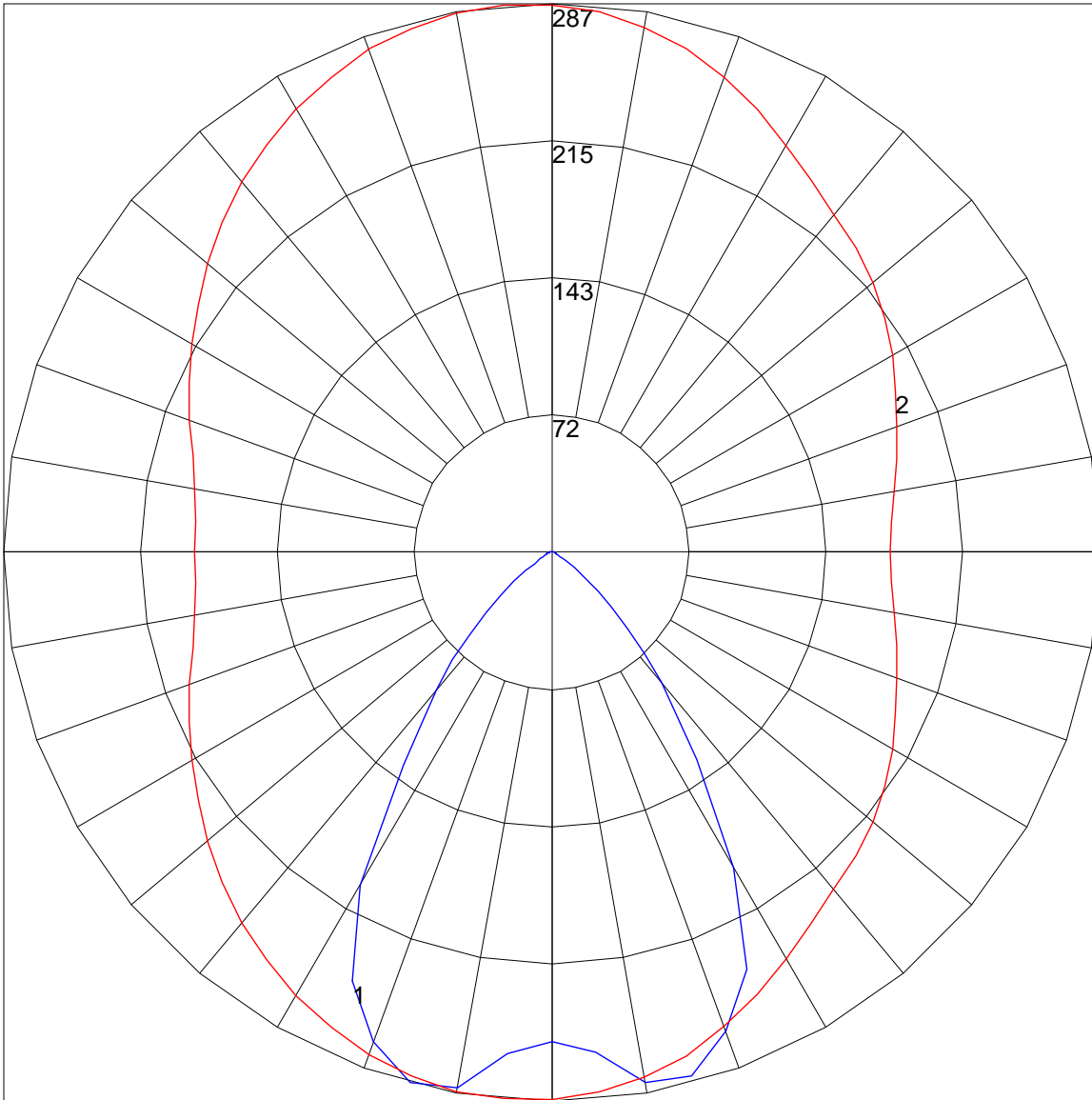
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L091504602_FHEM10W-H.IES

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	101	101	101	99
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	94	93	91
2	106	101	97	93	104	99	95	92	96	92	90	93	90	87	90	87	86	84
3	100	93	88	84	98	92	87	83	89	85	81	86	83	80	84	81	79	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71
5	90	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	72	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	65	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46

POLAR GRAPH



Maximum Candela = 286.83 Located At Horizontal Angle = 95, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (95 - 275) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)