

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16 LED_2W-12V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] EVERFINE

[TESTDATE] 2016-10-10

[ISSUEDATE] 2016-10-10 17:04:51

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] BEGHELLI

[MANUFAC] BEGHELLI

[LUMINAIRE] MR16 LED_2W-12V (ONE HEAD ONLY)

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	36.50	36.50	19.87	19.87
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[OTHER]	10- 20	62.25	98.76	53.76	53.76
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[OTHER]	20- 30	40.38	139.14	75.74	75.74
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[OTHER]	30- 40	21.03	160.16	87.19	87.19
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[OTHER]	40- 50	11.19	171.35	93.28	93.28
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[OTHER]	50- 60	6.34	177.69	96.73	96.73
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[OTHER]	60- 70	4.19	181.88	99.01	99.01
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[OTHER]	70- 80	1.48	183.36	99.81	99.81
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[OTHER]	80- 90	0.34	183.70	100.00	100.00
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[OTHER]	90-100	0.00	183.70	100.00	100.00
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[OTHER]	100-110	0.00	183.70	100.00	100.00
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[OTHER]	110-120	0.00	183.70	100.00	100.00
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[OTHER]	120-130	0.00	183.70	100.00	100.00
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[OTHER]	130-140	0.00	183.70	100.00	100.00
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[OTHER]	140-150	0.00	183.70	100.00	100.00
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[OTHER]	150-160	0.00	183.70	100.00	100.00
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[OTHER]	160-170	0.00	183.70	100.00	100.00
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[OTHER]	170-180	0.00	183.70	100.00	100.00
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[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	183.7 (1 lamp)
Total Lamp Lumens	183.7
Luminaire Lumens	184
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.03 m (Diameter)
Luminous Width (90-270)	0.03 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35102	30074	30281
55	20632	18057	18594
65	16939	14942	15633
75	9220	6335	7903
85	5774	5774	5401

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	448.42	448.42	448.42	448.42	448.42	448.42	448.42	448.42	448.42	448.42
1	447.64	447.65	446.82	445.90	448.45	447.59	447.11	446.11	446.13	446.05
2	443.74	443.71	442.01	440.61	445.77	443.75	442.75	440.61	440.86	440.67
3	436.80	436.75	434.18	431.96	439.98	436.83	434.96	432.14	432.37	432.44
4	427.38	427.07	422.75	420.15	430.68	426.70	424.18	420.11	420.39	421.56
5	416.82	414.53	408.99	405.85	418.23	413.16	411.15	405.94	406.52	408.10
6	402.83	400.08	393.45	389.35	403.80	398.11	395.05	390.39	390.89	392.68
7	386.96	383.98	376.91	371.80	387.33	381.02	377.96	373.38	372.90	376.18
8	370.18	366.85	358.77	353.15	369.28	363.31	359.86	354.95	355.19	358.57
9	352.26	348.94	339.51	333.97	349.96	343.87	340.74	334.96	336.55	339.89
10	333.24	329.71	319.77	314.06	330.57	324.09	320.07	315.16	316.47	321.54
11	314.78	309.83	299.97	293.94	310.49	303.42	300.08	295.08	296.27	301.52
12	294.55	289.90	279.99	273.82	290.60	283.00	280.39	275.27	277.73	282.00
13	273.01	269.88	259.29	253.00	270.65	263.25	260.21	255.95	258.03	262.73
14	254.23	248.91	240.30	232.19	249.94	243.95	240.25	236.64	238.33	243.39
15	233.28	227.94	221.08	213.51	229.25	224.73	220.29	217.40	218.64	224.25
16	214.41	209.10	202.27	195.32	210.63	205.93	202.38	199.25	200.55	205.41
17	196.43	191.08	184.39	177.81	192.94	188.61	184.55	182.24	182.72	187.98
18	178.63	174.15	168.29	161.62	176.09	171.74	167.95	165.63	166.09	171.43
19	163.09	158.27	152.82	146.31	160.22	156.20	152.80	150.48	151.38	155.60
20	148.13	143.25	138.03	132.08	144.90	141.14	138.24	136.00	136.64	140.92
21	134.00	129.46	124.50	119.15	130.79	127.56	124.56	123.02	123.05	127.78
22	121.50	116.96	110.99	107.40	117.92	113.99	112.10	110.05	111.14	114.66
23	109.01	105.62	99.87	96.64	106.03	102.52	101.17	99.10	100.40	103.39
24	98.38	95.14	89.75	86.89	95.25	92.28	90.86	89.22	90.25	93.33
25	88.89	85.64	80.79	78.08	85.61	82.79	81.35	80.19	81.16	84.16
26	80.52	77.22	72.88	70.15	77.01	74.48	73.30	72.09	73.21	75.96
27	73.09	69.89	65.88	63.18	69.22	67.10	65.91	64.85	65.92	68.48
28	66.03	63.14	59.30	56.81	62.38	60.43	59.17	58.44	59.46	61.87
29	59.95	57.07	53.71	51.13	56.17	54.47	53.10	52.73	53.67	56.00
30	54.68	51.72	48.62	46.19	50.78	49.12	47.88	47.59	48.61	50.84
31	49.79	46.94	44.10	41.79	45.95	44.34	43.32	43.05	43.92	46.23
32	45.49	42.65	39.94	38.04	41.55	40.08	39.18	38.97	39.87	42.06
33	41.48	38.83	36.33	34.58	37.63	36.38	35.47	35.32	36.15	38.26
34	37.89	35.43	33.27	31.50	34.25	33.06	32.18	32.09	32.82	34.85
35	34.68	32.37	30.37	28.62	31.10	29.98	29.21	29.29	29.82	31.78
36	31.96	29.68	27.59	26.17	28.33	27.34	26.57	26.68	27.22	29.03
37	29.33	27.15	25.27	23.99	25.81	24.96	24.23	24.30	24.88	26.63
38	26.98	24.84	23.13	22.01	23.61	22.77	22.14	22.14	22.73	24.43
39	24.83	22.85	21.20	20.26	21.57	20.85	20.23	20.19	20.80	22.34
40	22.81	21.02	19.48	18.66	19.79	19.13	18.58	18.49	19.04	20.50
41	21.02	19.32	17.98	17.18	18.19	17.55	17.11	16.95	17.42	18.84
42	19.38	17.94	16.58	15.85	16.79	16.17	15.71	15.63	16.03	17.29
43	17.93	16.53	15.27	14.65	15.47	14.86	14.48	14.35	14.82	15.93
44	16.55	15.26	14.11	13.53	14.27	13.75	13.37	13.21	13.73	14.71
45	15.29	14.09	13.10	12.51	13.19	12.73	12.38	12.22	12.77	13.63
46	14.14	13.04	12.13	11.63	12.23	11.76	11.43	11.29	11.79	12.58
47	13.14	12.12	11.22	10.80	11.34	10.89	10.58	10.47	10.86	11.62
48	12.19	11.20	10.44	10.00	10.59	10.16	9.85	9.73	10.15	10.82
49	11.26	10.40	9.66	9.27	9.87	9.47	9.15	9.05	9.42	10.07
50	10.48	9.64	8.97	8.62	9.18	8.83	8.50	8.40	8.76	9.36
51	9.75	8.98	8.32	8.07	8.53	8.21	7.92	7.77	8.18	8.67
52	9.04	8.31	7.75	7.56	7.92	7.64	7.43	7.28	7.67	8.11
53	8.40	7.73	7.30	7.14	7.42	7.17	6.98	6.85	7.20	7.54

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CANDELA TABULATION - (Cont.)

54	7.82	7.23	6.86	6.76	6.99	6.73	6.59	6.46	6.77	7.09
55	7.29	6.82	6.38	6.38	6.57	6.37	6.22	6.08	6.39	6.70
56	6.86	6.40	5.99	6.06	6.17	6.02	5.90	5.76	6.10	6.35
57	6.47	6.03	5.69	5.83	5.83	5.72	5.68	5.52	5.84	6.06
58	6.15	5.75	5.51	5.64	5.55	5.51	5.50	5.30	5.66	5.82
59	5.93	5.52	5.29	5.55	5.35	5.35	5.36	5.07	5.44	5.63
60	5.75	5.34	4.98	5.38	5.16	5.21	5.16	4.81	5.20	5.49
61	5.57	5.12	4.71	5.13	4.99	5.05	4.92	4.51	4.94	5.37
62	5.37	4.78	4.44	4.86	4.83	4.88	4.67	4.30	4.69	5.10
63	5.07	4.49	4.25	4.65	4.65	4.61	4.51	4.17	4.49	4.73
64	4.68	4.29	4.07	4.49	4.38	4.31	4.32	4.06	4.31	4.45
65	4.41	4.14	3.89	4.35	4.07	4.05	4.14	3.93	4.16	4.26
66	4.19	3.99	3.74	4.17	3.66	3.65	3.98	3.79	4.03	3.98
67	4.01	3.84	3.60	3.96	3.24	3.24	3.84	3.63	3.88	3.37
68	3.57	3.69	3.44	3.51	2.94	2.95	3.59	3.46	3.70	2.99
69	3.07	3.51	3.27	3.06	2.71	2.72	3.10	3.29	3.23	2.73
70	2.77	3.26	3.08	2.71	2.51	2.52	2.73	3.13	2.67	2.54
71	2.55	2.72	2.62	2.35	2.32	2.35	2.42	2.46	2.35	2.35
72	2.34	2.27	2.00	2.02	2.16	2.18	2.15	1.64	2.11	2.16
73	2.08	1.98	1.39	1.68	1.98	2.00	1.76	1.34	1.56	1.96
74	1.86	1.41	1.15	1.16	1.78	1.63	1.26	1.16	1.21	1.57
75	1.47	1.12	1.01	0.98	1.26	1.21	1.09	1.03	1.04	1.18
76	1.09	0.99	0.88	0.85	1.05	1.06	0.95	0.89	0.90	1.03
77	0.96	0.85	0.77	0.75	0.92	0.93	0.87	0.77	0.81	0.90
78	0.84	0.74	0.67	0.65	0.80	0.81	0.73	0.71	0.75	0.77
79	0.75	0.67	0.64	0.55	0.68	0.70	0.61	0.68	0.60	0.65
80	0.65	0.60	0.62	0.50	0.60	0.59	0.59	0.48	0.58	0.56
81	0.57	0.54	0.45	0.39	0.61	0.51	0.46	0.41	0.42	0.48
82	0.55	0.40	0.38	0.32	0.42	0.42	0.35	0.36	0.36	0.38
83	0.39	0.33	0.34	0.29	0.33	0.37	0.31	0.33	0.32	0.34
84	0.33	0.32	0.32	0.29	0.30	0.34	0.30	0.33	0.31	0.32
85	0.31	0.30	0.31	0.27	0.29	0.32	0.29	0.33	0.31	0.30
86	0.30	0.29	0.30	0.26	0.29	0.30	0.26	0.30	0.29	0.29
87	0.29	0.27	0.26	0.20	0.26	0.26	0.22	0.24	0.24	0.27
88	0.26	0.22	0.19	0.15	0.20	0.20	0.17	0.17	0.17	0.20
89	0.19	0.16	0.15	0.15	0.15	0.16	0.17	0.16	0.16	0.16
90	0.15	0.14	0.17	0.18	0.15	0.19	0.20	0.20	0.20	0.18

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	448.42	448.42	448.42	448.42	448.42	448.42	448.42
1	447.28	447.90	445.45	446.24	446.70	447.83	447.64
2	443.06	444.46	439.54	441.44	442.19	443.95	443.74
3	436.48	438.43	431.74	433.82	435.00	437.25	436.80
4	427.18	430.02	421.53	424.30	425.53	428.63	427.38
5	415.53	418.70	408.90	412.29	414.82	417.57	416.82
6	400.69	405.20	394.41	398.47	400.65	404.15	402.83
7	385.13	389.48	377.57	382.30	384.30	388.16	386.96
8	368.27	372.75	360.05	364.63	367.59	371.23	370.18
9	349.78	354.83	341.70	346.54	348.40	353.49	352.26
10	330.46	336.79	322.40	327.76	330.59	335.04	333.24
11	311.47	317.79	302.89	308.36	311.35	315.01	314.78
12	292.48	298.30	283.80	288.94	290.79	295.21	294.55
13	272.72	278.58	263.93	269.50	272.01	276.02	273.01
14	252.45	259.23	244.53	249.38	252.61	255.60	254.23

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CANDELA TABULATION - (Cont.)

15	232.17	240.04	225.55	229.27	232.70	235.18	233.28
16	213.68	221.55	207.79	210.84	215.06	216.08	214.41
17	195.42	203.66	190.27	193.16	196.48	197.95	196.43
18	178.63	185.86	173.90	176.94	179.71	181.32	178.63
19	163.49	169.80	158.90	161.65	164.54	165.42	163.09
20	148.17	154.68	144.88	147.29	149.72	150.29	148.13
21	134.07	140.47	131.54	133.84	135.81	136.35	134.00
22	121.50	127.48	117.63	121.56	123.56	123.78	121.50
23	110.06	114.49	106.91	110.53	111.32	112.47	109.01
24	99.26	103.87	96.87	100.38	100.71	102.00	98.38
25	89.66	94.17	87.80	90.85	91.40	92.32	88.89
26	81.31	85.23	79.59	82.43	83.07	83.94	80.52
27	73.53	76.95	72.49	75.10	75.60	76.49	73.09
28	66.57	69.82	66.18	68.33	68.54	69.48	66.03
29	60.45	63.12	60.39	62.22	62.47	63.30	59.95
30	54.99	57.28	55.18	57.02	57.17	57.89	54.68
31	49.97	52.08	50.36	52.10	52.01	52.73	49.79
32	45.48	47.42	46.01	47.70	47.74	48.13	45.49
33	41.49	43.39	42.10	43.71	43.64	43.98	41.48
34	37.91	39.72	38.65	40.10	40.08	40.40	37.89
35	34.63	36.53	35.48	36.71	36.85	37.04	34.68
36	31.59	33.53	32.58	33.70	34.04	33.93	31.96
37	28.93	30.81	29.86	30.87	31.37	31.06	29.33
38	26.51	28.21	27.39	28.35	28.79	28.57	26.98
39	24.36	25.98	25.12	26.16	26.47	26.28	24.83
40	22.38	23.98	23.11	24.09	24.45	24.15	22.81
41	20.57	22.05	21.27	22.16	22.55	22.30	21.02
42	18.96	20.36	19.54	20.45	20.86	20.69	19.38
43	17.52	18.74	18.03	18.79	19.23	19.10	17.93
44	16.13	17.25	16.65	17.31	17.77	17.68	16.55
45	14.88	15.90	15.34	15.96	16.45	16.43	15.29
46	13.75	14.68	14.18	14.73	15.23	15.22	14.14
47	12.73	13.61	13.12	13.63	14.04	14.11	13.14
48	11.81	12.60	12.14	12.62	13.02	13.15	12.19
49	10.95	11.69	11.18	11.67	12.01	12.14	11.26
50	10.19	10.80	10.37	10.79	11.15	11.24	10.48
51	9.41	9.98	9.60	10.00	10.32	10.39	9.75
52	8.75	9.24	8.84	9.24	9.55	9.60	9.04
53	8.11	8.57	8.23	8.58	8.83	8.93	8.40
54	7.59	8.00	7.66	7.98	8.17	8.27	7.82
55	7.10	7.53	7.13	7.47	7.60	7.66	7.29
56	6.64	7.07	6.68	6.98	7.19	7.08	6.86
57	6.28	6.71	6.28	6.56	6.81	6.66	6.47
58	6.04	6.40	6.00	6.22	6.48	6.32	6.15
59	5.85	6.20	5.77	5.96	6.27	6.04	5.93
60	5.70	6.07	5.48	5.72	6.16	5.82	5.75
61	5.57	5.91	5.15	5.45	6.03	5.64	5.57
62	5.46	5.67	4.82	5.09	5.81	5.46	5.37
63	5.35	5.34	4.57	4.79	5.45	5.33	5.07
64	5.11	5.01	4.35	4.60	5.07	5.18	4.68
65	4.54	4.79	4.16	4.39	4.82	4.81	4.41
66	3.84	4.60	3.95	4.16	4.60	4.02	4.19
67	3.34	4.42	3.73	3.93	4.40	3.36	4.01
68	3.00	4.22	3.52	3.74	4.09	2.95	3.57
69	2.76	3.61	3.30	3.54	3.47	2.71	3.07
70	2.55	3.04	3.13	3.29	3.04	2.50	2.77

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CANDELA TABULATION - (Cont.)

71	2.37	2.69	2.58	2.81	2.76	2.31	2.55
72	2.20	2.36	2.06	2.27	2.41	2.15	2.34
73	2.02	2.07	1.44	1.89	2.08	1.98	2.08
74	1.85	1.82	1.14	1.22	1.81	1.82	1.86
75	1.43	1.31	0.99	0.99	1.26	1.68	1.47
76	1.06	1.02	0.88	0.84	0.95	1.13	1.09
77	0.94	0.90	0.75	0.72	0.82	0.94	0.96
78	0.82	0.79	0.63	0.63	0.72	0.83	0.84
79	0.71	0.69	0.58	0.56	0.64	0.72	0.75
80	0.60	0.62	0.52	0.51	0.57	0.62	0.65
81	0.50	0.53	0.44	0.44	0.50	0.52	0.57
82	0.43	0.48	0.36	0.35	0.45	0.44	0.55
83	0.35	0.39	0.31	0.31	0.35	0.36	0.39
84	0.32	0.34	0.30	0.28	0.31	0.29	0.33
85	0.32	0.32	0.29	0.28	0.30	0.27	0.31
86	0.31	0.32	0.28	0.28	0.29	0.26	0.30
87	0.29	0.31	0.27	0.27	0.29	0.25	0.29
88	0.24	0.28	0.21	0.23	0.26	0.22	0.26
89	0.18	0.23	0.17	0.18	0.20	0.18	0.19
90	0.18	0.18	0.18	0.19	0.18	0.15	0.15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16 LED_2W-12V.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	98.76	53.80	53.80
0-30	139.14	75.70	75.70
0-40	160.16	87.20	87.20
0-60	177.69	96.70	96.70
0-80	183.36	99.80	99.80
0-90	183.70	100.00	100.00
10-90	147.20	80.10	80.10
20-40	61.41	33.40	33.40
20-50	72.59	39.50	39.50
40-70	21.72	11.80	11.80
60-80	5.67	3.10	3.10
70-80	1.48	0.80	0.80
80-90	0.34	0.20	0.20
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	183.70	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.50
10-20	62.25
20-30	40.38
30-40	21.03
40-50	11.19
50-60	6.34
60-70	4.19
70-80	1.48
80-90	0.34
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
PHOTOMETRIC FILENAME : MR16 LED_2W-12V.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	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59
10	76	67	62	59	75	67	62	58	66	62	58	65	61	58	65	61	58	57

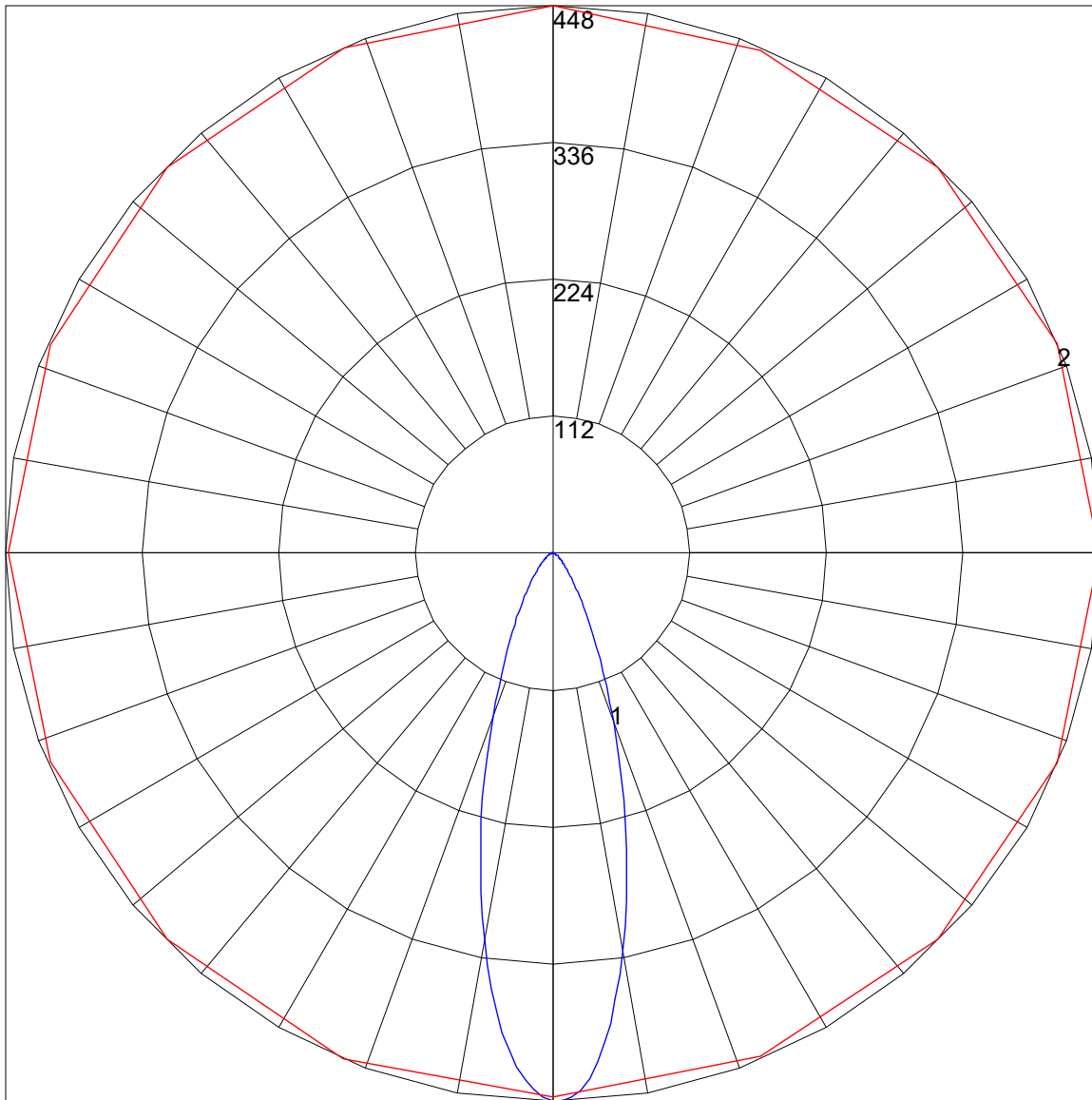
IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.7	17.8	17.1	18.1	18.4	16.1	17.2	16.5	17.5	17.8
	3H	18.0	18.9	18.4	19.3	19.6	17.3	18.3	17.7	18.6	19.0
	4H	18.3	19.1	18.7	19.5	19.9	17.6	18.5	18.0	18.8	19.2
	6H	18.3	19.1	18.7	19.5	19.9	17.7	18.5	18.1	18.8	19.2
	8H	18.3	19.1	18.7	19.5	19.9	17.7	18.4	18.1	18.8	19.2
	12H	18.3	19.0	18.7	19.4	19.8	17.6	18.4	18.1	18.8	19.2
4H	2H	17.2	18.0	17.6	18.4	18.8	16.6	17.4	17.0	17.8	18.2
	3H	18.6	19.3	19.0	19.7	20.1	18.0	18.7	18.4	19.1	19.5
	4H	18.9	19.5	19.3	20.0	20.4	18.2	18.9	18.7	19.3	19.7
	6H	19.0	19.5	19.5	20.0	20.4	18.3	18.9	18.8	19.3	19.8
	8H	19.0	19.5	19.5	19.9	20.4	18.3	18.8	18.8	19.3	19.8
	12H	19.0	19.4	19.5	19.9	20.4	18.3	18.8	18.8	19.3	19.7
8H	4H	18.9	19.4	19.4	19.8	20.3	18.2	18.7	18.7	19.2	19.7
	6H	19.0	19.4	19.5	19.9	20.4	18.4	18.8	18.9	19.3	19.7
	8H	19.0	19.4	19.5	19.9	20.4	18.4	18.7	18.9	19.3	19.8
	12H	19.1	19.4	19.6	19.9	20.4	18.4	18.7	18.9	19.2	19.8
12H	4H	18.8	19.3	19.3	19.8	20.2	18.2	18.6	18.7	19.1	19.6
	6H	18.9	19.3	19.5	19.8	20.3	18.3	18.7	18.8	19.1	19.7
	8H	19.0	19.3	19.5	19.8	20.4	18.4	18.7	18.9	19.2	19.8

Maximum UGR = 20.4

POLAR GRAPH



Maximum Candela = 448.45 Located At Horizontal Angle = 90, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)