



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 5W MR16 12V IES FIXED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST]

[TESTLAB]

[TESTDATE] 29 March 2021

[ISSUEDATE] 2021-03-29 15:14:28

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-2000A_V1 SYSTEM

[MANUFAC]

[LUMINAIRE]

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	88.76	88.76	15.25	15.25
[OTHER]	10- 20	167.58	256.34	44.04	44.04
[OTHER]	20- 30	133.88	390.22	67.04	67.04
[OTHER]	30- 40	83.31	473.53	81.35	81.35
[OTHER]	40- 50	45.54	519.07	89.18	89.18
[OTHER]	50- 60	27.19	546.27	93.85	93.85
[OTHER]	60- 70	18.22	564.48	96.98	96.98
[OTHER]	70- 80	9.59	574.07	98.63	98.63
[OTHER]	80- 90	2.81	576.89	99.11	99.11
[OTHER]	90-100	0.12	577.01	99.13	99.13
[OTHER]	100-110	0.14	577.15	99.16	99.16
[OTHER]	110-120	0.27	577.41	99.20	99.20
[OTHER]	120-130	0.48	577.90	99.28	99.28
[OTHER]	130-140	0.81	578.70	99.42	99.42
[OTHER]	140-150	1.11	579.82	99.61	99.61
[OTHER]	150-160	1.14	580.95	99.81	99.81
[OTHER]	160-170	0.82	581.77	99.95	99.95
[OTHER]	170-180	0.29	582.06	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	582.06 (1 lamp)
Total Lamp Lumens	582.06
Luminaire Lumens	589
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	4.98083
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.16 m
Luminous Width (90-270)	0.21 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2377	2166	2022
55	1504	1392	1361
65	1173	1145	1171
75	916	877	808
85	765	679	505

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	1040.27	1040.27	1040.27	1040.27	1040.27	1040.27	1040.27	1040.27	1040.27	1040.27
5	988.83	948.64	941.38	954.67	949.46	957.11	979.68	1014.88	946.09	1073.13
10	835.49	770.22	779.12	747.94	741.44	757.39	796.47	857.09	775.39	946.52
15	616.74	547.78	575.06	531.27	527.11	552.83	589.82	649.65	577.42	721.45
20	423.26	370.99	393.62	357.91	361.60	380.89	411.19	460.83	406.59	513.99
25	287.98	249.78	268.58	242.52	247.37	258.99	285.81	318.18	282.99	352.34
30	191.49	168.30	182.58	165.79	167.51	176.73	197.34	224.36	196.95	243.67
35	126.26	112.00	122.89	110.25	113.01	118.47	133.16	151.62	131.27	162.40
40	84.31	73.16	81.08	71.61	73.39	78.25	88.28	99.14	86.46	106.80
45	56.50	49.47	53.52	48.07	49.93	53.49	59.13	66.41	57.92	70.51
50	39.41	34.78	36.69	34.31	35.48	38.77	41.34	45.35	40.19	48.32
55	28.99	26.10	27.58	26.24	27.54	29.49	30.77	32.61	30.10	35.11
60	22.14	20.18	21.56	21.35	22.68	23.24	24.62	25.55	24.16	27.07
65	16.67	15.33	17.19	16.63	17.57	17.95	20.49	21.13	20.08	21.40
70	12.04	10.84	12.64	11.59	12.33	12.75	15.36	17.34	15.02	16.18
75	7.97	7.04	8.22	7.03	7.66	8.08	10.00	11.30	10.19	11.16
80	4.74	4.00	4.71	3.76	3.99	4.26	6.27	7.20	5.92	6.77
85	2.24	1.75	2.23	1.48	1.69	1.83	2.54	3.43	2.58	3.61
90	0.08	0.08	0.08	0.06	0.06	0.07	0.07	0.07	0.10	1.44
95	0.11	0.08	0.10	0.09	0.07	0.07	0.06	0.07	0.07	0.08
100	0.13	0.09	0.12	0.14	0.08	0.10	0.06	0.09	0.07	0.08
105	0.18	0.11	0.18	0.18	0.09	0.15	0.09	0.12	0.08	0.08
110	0.25	0.21	0.21	0.23	0.15	0.21	0.11	0.18	0.12	0.13
115	0.32	0.34	0.33	0.32	0.23	0.29	0.21	0.24	0.21	0.21
120	0.44	0.44	0.44	0.45	0.35	0.41	0.29	0.33	0.33	0.31
125	0.62	0.60	0.61	0.63	0.52	0.57	0.45	0.46	0.43	0.45
130	0.85	0.85	0.85	0.87	0.76	0.80	0.64	0.64	0.63	0.66
135	1.17	1.18	1.15	1.19	1.07	1.10	0.93	0.90	0.88	0.93
140	1.53	1.56	1.53	1.56	1.44	1.44	1.26	1.23	1.20	1.29
145	1.93	1.96	1.92	1.93	1.81	1.83	1.62	1.57	1.58	1.70
150	2.31	2.33	2.30	2.29	2.17	2.18	2.01	1.95	1.95	2.11
155	2.64	2.63	2.61	2.61	2.46	2.50	2.31	2.29	2.28	2.47
160	2.87	2.84	2.83	2.83	2.70	2.74	2.57	2.57	2.53	2.77
165	3.03	2.97	2.99	3.00	2.88	2.90	2.76	2.77	2.70	2.96
170	3.11	3.03	3.06	3.12	2.97	3.00	2.88	2.91	2.80	3.09
175	3.12	3.04	3.05	3.20	3.04	3.09	2.94	3.01	2.91	3.16
180	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	1040.27	1040.27	1040.27
5	1060.19	1030.04	988.83
10	936.47	892.52	835.49
15	718.93	684.94	616.74
20	513.24	478.22	423.26
25	347.06	327.67	287.98
30	231.86	219.12	191.49
35	155.47	140.32	126.26
40	100.97	90.34	84.31
45	66.32	60.34	56.50
50	45.49	41.34	39.41
55	32.97	29.90	28.99
60	25.26	22.44	22.14

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CANDELA TABULATION - (Cont.)

65	19.26	16.93	16.67
70	14.30	12.55	12.04
75	9.74	8.70	7.97
80	6.14	5.43	4.74
85	3.32	2.83	2.24
90	1.22	0.87	0.08
95	0.08	0.08	0.11
100	0.12	0.08	0.13
105	0.16	0.09	0.18
110	0.20	0.14	0.25
115	0.28	0.21	0.32
120	0.39	0.34	0.44
125	0.54	0.48	0.62
130	0.75	0.70	0.85
135	1.03	0.99	1.17
140	1.39	1.34	1.53
145	1.78	1.74	1.93
150	2.19	2.15	2.31
155	2.56	2.48	2.64
160	2.84	2.74	2.87
165	3.03	2.97	3.03
170	3.15	3.04	3.11
175	3.20	3.08	3.12
180	3.12	3.12	3.12

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.46	44.40	43.90
0-30	394.65	67.80	67.00
0-40	479.34	82.40	81.30
0-60	553.20	95.00	93.90
0-80	581.11	99.80	98.60
0-90	584.00	100.30	99.10
10-90	495.14	85.10	84.00
20-40	220.87	37.90	37.50
20-50	267.25	45.90	45.40
40-70	92.10	15.80	15.60
60-80	27.92	4.80	4.70
70-80	9.68	1.70	1.60
80-90	2.89	0.50	0.50
90-110	0.33	0.10	0.10
90-120	0.59	0.10	0.10
90-130	1.08	0.20	0.20
90-150	3.01	0.50	0.50
90-180	5.25	0.90	0.90
110-180	4.93	0.80	0.80
0-180	589.26	101.20	100.00

Total Luminaire Efficiency = 101.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.87
10-20	169.60
20-30	136.19
30-40	84.68
40-50	46.38
50-60	27.48
60-70	18.24
70-80	9.68
80-90	2.89
90-100	0.19
100-110	0.14
110-120	0.27
120-130	0.49
130-140	0.81
140-150	1.11
150-160	1.14
160-170	0.82
170-180	0.29

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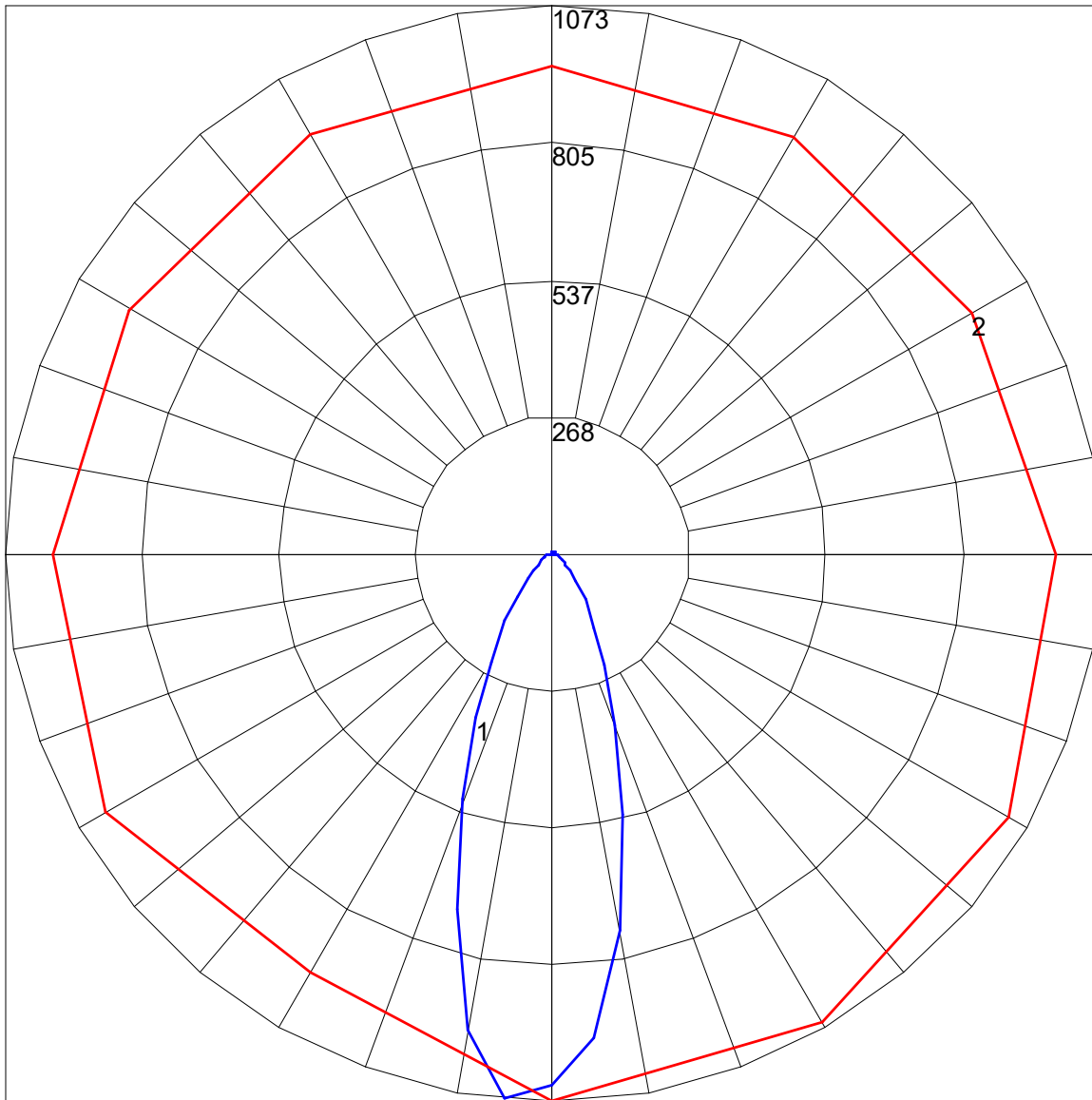
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	102	102	102	100
1	114	111	108	105	111	109	106	104	104	102	100	100	99	97	97	95	94	92
2	108	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	102	95	89	85	100	93	88	84	91	86	83	88	84	81	85	83	80	78
4	97	88	82	78	95	87	82	77	85	80	76	83	79	75	81	77	74	73
5	92	83	77	72	90	82	76	72	80	75	71	78	74	70	76	72	69	68
6	87	78	71	67	86	77	71	67	75	70	66	74	69	66	72	68	65	64
7	83	73	67	63	82	73	67	62	71	66	62	70	65	62	69	64	61	60
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	65	61	58	56
9	76	66	60	56	75	65	60	56	64	59	55	63	59	55	62	58	55	53
10	72	63	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

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POLAR GRAPH



Maximum Candela = 1073.13 Located At Horizontal Angle = 270, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)