



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 16550 SMALL SPACE LED LUMINAIRE WITH MOTION SENSOR.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 14 August 2018

[ISSUEDATE] 2018-08-15 10:29:05

[NEARFIELD]

[LAMPPOSITION] 0,0

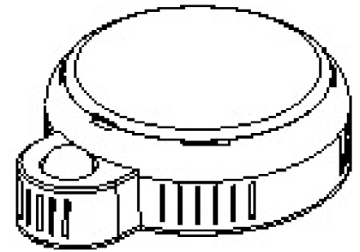
[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] ENGINEERED PRODUCTS CO.

[LUMCAT] 16550

CHARACTERISTICS

Lumens Per Lamp	1105 (1 lamp)
Total Lamp Lumens	1105
Luminaire Lumens	1052
Total Luminaire Efficiency	95 %
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	12.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.60 ft (Diameter)
Luminous Width (90-270)	0.60 ft (Diameter)
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13615	13300	12628
55	13200	12792	11901
65	12777	12198	11002
75	12751	11856	10147
85	18634	16613	13218

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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	368.95	368.95	368.95	368.95	368.95	368.95	368.95	368.95	368.95	368.95
5	369.67	369.26	368.80	367.87	366.98	366.11	365.31	364.84	364.86	364.89
10	366.39	365.52	364.74	362.91	361.48	359.49	358.09	357.17	357.14	357.29
15	359.53	358.33	356.95	354.14	352.15	349.55	347.13	345.66	345.73	346.05
20	349.61	348.18	345.79	342.49	339.97	336.26	333.25	331.32	331.06	331.99
25	335.92	334.37	331.57	327.77	324.02	319.86	316.31	314.00	313.90	315.13
30	319.20	317.60	314.34	309.69	305.49	300.37	296.28	294.06	293.70	295.14
35	299.60	297.83	294.26	288.81	283.99	278.53	274.09	271.42	271.12	273.04
40	277.47	275.71	271.86	265.66	260.33	254.53	249.90	246.60	246.50	248.51
45	253.12	251.34	247.27	240.32	234.78	228.29	223.10	220.07	219.94	222.21
50	226.71	225.54	220.88	213.49	207.67	200.75	195.31	191.92	191.79	194.41
55	199.06	197.91	192.91	185.53	179.47	172.34	166.74	163.18	162.88	165.76
60	170.63	169.44	164.36	156.76	150.74	143.60	137.87	134.36	133.82	136.66
65	141.97	140.80	135.54	128.14	122.25	115.28	109.37	106.07	105.17	107.94
70	113.81	112.38	107.37	100.54	94.74	88.04	81.78	78.80	77.97	80.45
75	86.77	85.19	80.68	74.40	69.05	63.19	57.86	55.38	55.04	57.01
80	62.50	60.85	56.94	51.76	47.38	42.35	38.40	36.72	36.66	38.33
85	42.70	41.32	38.07	33.82	30.29	26.54	23.97	22.77	22.88	24.16
90	27.37	26.14	23.88	20.78	17.84	15.21	13.52	12.80	12.94	13.82
95	16.34	15.41	13.09	0.07	0.03	0.01	3.83	6.36	6.57	6.79
100	3.06	0.02	0.53	5.37	4.09	3.21	0.26	0.01	0.01	0.00
105	0.31	0.18	2.94	2.27	1.59	1.21	1.07	0.09	0.12	0.06
110	0.75	0.02	0.90	0.87	0.66	0.53	0.47	0.01	0.55	0.01
115	0.24	0.02	0.18	0.39	0.32	0.27	0.17	0.03	0.23	0.03
120	0.12	0.02	0.02	0.14	0.05	0.14	0.02	0.03	0.06	0.03
125	0.08	0.04	0.01	0.01	0.05	0.08	0.02	0.02	0.02	0.02
130	0.04	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.02
135	0.02	0.02	0.02	0.02	0.01	0.02	0.03	0.03	0.03	0.02
140	0.03	0.03	0.01	0.02	0.01	0.02	0.01	0.03	0.03	0.03
145	0.02	0.02	0.01	0.03	0.01	0.03	0.02	0.01	0.04	0.03
150	0.01	0.01	0.02	0.03	0.01	0.04	0.03	0.01	0.01	0.02
155	0.04	0.07	0.01	0.12	0.01	0.07	0.01	0.01	0.08	0.17
160	0.09	0.14	0.02	0.01	0.01	0.06	0.01	0.06	0.16	0.17
165	0.10	0.02	0.14	0.02	0.01	0.01	0.01	0.21	0.22	0.19
170	0.11	0.01	0.09	0.14	0.01	0.01	0.07	0.10	0.02	0.23
175	0.01	0.01	0.00	0.01	0.01	0.00	0.05	0.01	0.01	0.05
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>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	368.95	368.95	368.95	368.95	368.95	368.95	368.95
5	365.79	366.53	367.14	368.03	368.87	369.30	369.67
10	359.18	361.09	362.27	364.11	365.35	366.20	366.39
15	348.29	351.23	353.60	356.41	358.04	359.60	359.53
20	334.96	338.45	341.23	344.70	347.36	349.22	349.61
25	318.46	322.41	325.87	329.84	333.38	335.67	335.92
30	298.85	303.29	307.61	311.99	316.22	318.71	319.20
35	276.86	282.11	286.02	291.34	296.01	298.73	299.60
40	252.61	257.95	262.40	268.12	273.17	276.36	277.47
45	226.50	231.83	236.48	242.81	247.96	251.59	253.12
50	198.98	204.34	208.92	215.73	220.90	224.98	226.71
55	170.57	175.61	180.59	187.25	192.81	197.21	199.06
60	141.66	146.70	151.86	158.31	164.06	168.74	170.63

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65	112.99	118.21	123.57	129.74	135.31	140.20	141.97
70	85.52	90.90	96.21	102.11	107.46	112.16	113.81
75	61.19	66.15	71.15	76.50	81.22	85.68	86.77
80	41.56	45.71	49.64	54.25	58.09	61.67	62.50
85	26.63	29.63	32.65	36.25	39.47	42.19	42.70
90	15.49	17.66	19.97	22.87	25.21	26.99	27.37
95	3.48	9.13	10.83	12.70	14.38	16.06	16.34
100	1.28	4.45	5.38	6.53	0.61	0.03	3.06
105	1.45	1.89	2.41	2.96	3.51	0.21	0.31
110	0.60	0.86	1.09	1.34	1.25	0.01	0.75
115	0.15	0.42	0.29	0.72	0.37	0.02	0.24
120	0.01	0.17	0.04	0.33	0.03	0.03	0.12
125	0.02	0.01	0.01	0.01	0.01	0.08	0.08
130	0.02	0.01	0.01	0.01	0.01	0.08	0.04
135	0.02	0.02	0.01	0.05	0.01	0.06	0.02
140	0.01	0.02	0.01	0.01	0.01	0.02	0.03
145	0.02	0.01	0.01	0.01	0.01	0.02	0.02
150	0.05	0.05	0.01	0.02	0.02	0.02	0.01
155	0.06	0.05	0.01	0.03	0.02	0.03	0.04
160	0.17	0.09	0.01	0.03	0.02	0.04	0.09
165	0.17	0.06	0.01	0.03	0.03	0.06	0.10
170	0.20	0.14	0.01	0.03	0.06	0.07	0.11
175	0.03	0.01	0.01	0.01	0.01	0.01	0.01
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Zone	Lumens	%Lamp	%Fixt
0-20	134.37	12.20	12.80
0-30	284.04	25.70	27.00
0-40	462.42	41.80	43.90
0-60	806.05	72.90	76.60
0-80	1003.7	90.80	95.40
0-90	1039.85	94.10	98.80
10-90	1004.97	90.90	95.50
20-40	328.05	29.70	31.20
20-50	510.14	46.20	48.50
40-70	465.95	42.20	44.30
60-80	197.65	17.90	18.80
70-80	75.33	6.80	7.20
80-90	36.14	3.30	3.40
90-110	12.03	1.10	1.10
90-120	12.32	1.10	1.20
90-130	12.36	1.10	1.20
90-150	12.39	1.10	1.20
90-180	12.43	1.10	1.20
110-180	0.41	0.00	0.00
0-180	1052.28	95.20	100.00

Total Luminaire Efficiency = 95.20%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.88
10-20	99.49
20-30	149.67
30-40	178.38
40-50	182.10
50-60	161.54
60-70	122.32
70-80	75.33
80-90	36.14
90-100	10.54
100-110	1.48
110-120	0.30
120-130	0.04
130-140	0.02
140-150	0.01
150-160	0.02
160-170	0.02
170-180	0.00

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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	113	113	113	113	110	110	110	110	105	105	105	100	100	100	96	96	96	94
1	103	98	94	90	100	96	92	88	91	88	85	87	85	82	84	82	80	78
2	93	85	79	73	91	83	77	72	80	75	70	76	72	68	73	70	67	64
3	85	75	67	61	83	73	66	60	70	64	59	67	62	58	65	60	56	54
4	78	66	58	51	76	65	57	51	62	56	50	60	54	49	58	53	48	46
5	72	59	51	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
6	66	53	45	39	64	52	44	38	51	43	38	49	42	38	47	42	37	35
7	61	48	40	34	60	48	40	34	46	39	34	45	38	33	43	37	33	31
8	57	44	36	30	56	43	36	30	42	35	30	41	34	30	40	34	30	28
9	53	41	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25
10	50	37	30	25	49	37	30	25	36	29	25	35	29	24	34	28	24	23

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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

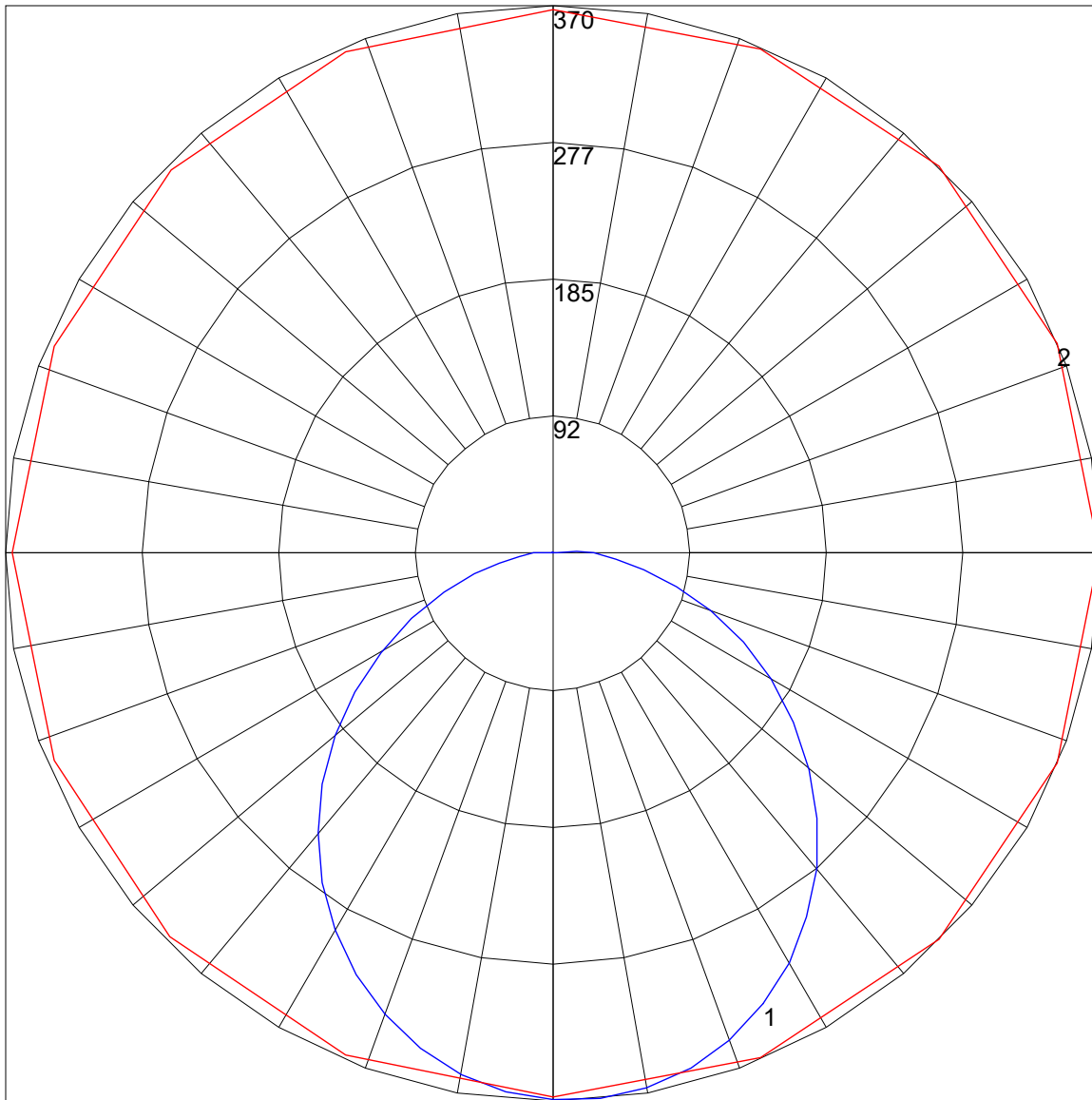
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	20.3	22.0	20.7	22.3	22.6	19.6	21.2	20.0	21.5	21.9
	3H	22.3	23.8	22.7	24.2	24.5	21.4	22.9	21.8	23.2	23.6
	4H	23.2	24.6	23.6	24.9	25.3	22.1	23.5	22.5	23.9	24.3
	6H	24.0	25.3	24.4	25.6	26.1	22.8	24.1	23.2	24.4	24.9
	8H	24.3	25.6	24.8	26.0	26.4	23.0	24.3	23.5	24.7	25.1
	12H	24.7	25.9	25.1	26.3	26.7	23.3	24.5	23.8	24.9	25.4
4H	2H	21.0	22.4	21.4	22.7	23.1	20.2	21.6	20.6	22.0	22.4
	3H	23.2	24.4	23.6	24.8	25.2	22.3	23.4	22.7	23.9	24.3
	4H	24.2	25.3	24.7	25.7	26.2	23.1	24.2	23.6	24.6	25.1
	6H	25.2	26.1	25.6	26.6	27.0	23.9	24.9	24.4	25.3	25.8
	8H	25.6	26.5	26.1	26.9	27.4	24.3	25.2	24.8	25.6	26.1
	12H	26.1	26.9	26.6	27.4	27.9	24.7	25.4	25.1	25.9	26.4
8H	4H	24.6	25.4	25.1	25.9	26.4	23.5	24.4	24.0	24.8	25.3
	6H	25.7	26.4	26.2	26.9	27.4	24.5	25.2	25.0	25.7	26.2
	8H	26.3	27.0	26.8	27.5	28.0	24.9	25.6	25.5	26.1	26.6
	12H	26.9	27.5	27.5	28.0	28.6	25.4	26.0	26.0	26.5	27.1
12H	4H	24.6	25.4	25.1	25.9	26.4	23.6	24.4	24.1	24.9	25.4
	6H	25.8	26.5	26.4	27.0	27.5	24.6	25.3	25.1	25.7	26.3
	8H	26.5	27.1	27.0	27.6	28.2	25.1	25.7	25.7	26.2	26.8

Maximum UGR = 28.6

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POLAR GRAPH



Maximum Candela = 369.67 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)