



IES INDOOR REPORT

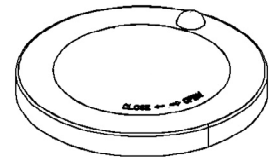
PHOTOMETRIC FILENAME : 16560 SMALL SPACE LED LUMINAIRE WITH COLOR-SELECT TECHNOLOGY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB]
[TESTDATE] 2021-03-20
[ISSUEDATE] 2021-03-19 09:47:45
[NEARFIELD]
[LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-2000A_V1 SYSTEM
[MANUFAC] ENGINEERED PRODUCTS CO.
[LUMCAT] 16560

CHARACTERISTICS

Lumens Per Lamp	1051 (1 lamp)
Total Lamp Lumens	1051
Luminaire Lumens	1052
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	9.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.45 ft (Diameter)
Luminous Width (90-270)	0.45 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	21944	22989	24034
55	20581	22159	23737
65	18188	20690	23193
75	13718	18027	22337
85	4554	14387	24221

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 16560 SMALL SPACE LED LUMINAIRE WITH COLOR-SELECT TECHNOLOGY.IES****CANDELA TABULATION**

	<u>0</u>	<u>90</u>
0	357.02	357.02
1	356.49	357.52
2	355.95	357.64
3	355.55	357.47
4	354.96	357.34
5	353.90	357.11
6	353.11	356.48
7	352.07	355.99
8	350.95	355.36
9	349.65	354.55
10	348.23	353.77
11	346.73	352.62
12	345.04	351.42
13	343.30	350.17
14	341.44	348.70
15	339.51	347.41
16	337.37	345.71
17	335.10	343.77
18	332.78	341.97
19	330.25	339.98
20	327.74	337.86
21	325.12	335.70
22	322.25	333.38
23	319.37	330.87
24	316.40	328.31
25	313.20	325.62
26	310.01	322.90
27	306.64	319.97
28	303.23	317.02
29	299.73	313.92
30	296.04	310.73
31	292.29	307.48
32	288.41	304.01
33	284.47	300.53
34	280.46	296.79
35	276.32	293.28
36	271.99	289.49
37	267.67	285.55
38	263.23	281.61
39	258.62	277.52
40	254.05	273.36
41	249.33	269.13
42	244.52	264.82
43	239.62	260.38
44	234.70	255.88
45	229.48	251.34
46	224.40	246.64
47	219.13	241.84
48	213.83	237.11
49	208.43	232.23
50	203.01	227.25
51	197.41	222.18
52	191.75	217.10
53	186.16	211.89

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54	180.37	206.64
55	174.59	201.36
56	168.68	195.94
57	162.79	190.53
58	156.85	184.97
59	150.75	179.41
60	144.63	173.84
61	138.50	168.11
62	132.34	162.42
63	126.18	156.61
64	119.95	150.78
65	113.68	144.96
66	107.40	138.99
67	101.19	133.12
68	94.93	127.14
69	88.74	121.20
70	82.51	115.25
71	76.31	109.22
72	70.24	103.28
73	64.25	97.30
74	58.31	91.38
75	52.51	85.50
76	46.83	79.64
77	41.26	73.87
78	35.88	68.13
79	30.61	62.49
80	25.55	56.96
81	20.68	51.58
82	15.92	46.22
83	11.42	41.10
84	8.06	36.07
85	5.87	31.22
86	4.32	26.56
87	3.10	21.99
88	2.50	17.61
89	2.43	13.54
90	2.40	9.66
91	2.35	6.37
92	2.34	4.65
93	2.31	4.65
94	2.29	4.65
95	2.25	4.66
96	2.25	4.65
97	2.26	4.65
98	2.28	4.65
99	2.29	4.65
100	2.31	4.65
101	2.32	4.65
102	2.34	4.65
103	2.35	4.65
104	2.38	4.65
105	2.40	4.65
106	2.43	4.65
107	2.45	4.65
108	2.50	4.65
109	2.54	4.63

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110	2.59	4.63
111	2.62	4.62
112	2.66	4.60
113	2.72	4.59
114	2.75	4.57
115	2.78	4.56
116	2.82	4.54
117	2.84	4.53
118	2.87	4.50
119	2.87	4.48
120	2.87	4.45
121	2.87	4.42
122	2.85	4.40
123	2.82	4.35
124	2.76	4.32
125	2.70	4.31
126	2.62	4.28
127	2.48	4.23
128	2.35	4.20
129	2.23	4.16
130	2.13	4.15
131	2.06	4.09
132	2.03	4.04
133	1.97	4.00
134	1.91	3.97
135	1.84	3.92
136	1.76	3.88
137	1.68	3.82
138	1.56	3.78
139	1.50	3.73
140	1.43	3.68
141	1.38	3.60
142	1.34	3.56
143	1.31	3.50
144	1.31	3.43
145	1.32	3.37
146	1.41	3.31
147	1.53	3.25
148	1.69	3.19
149	1.79	3.13
150	1.82	3.07
151	1.82	3.00
152	1.84	2.94
153	1.81	2.88
154	1.78	2.81
155	1.75	2.73
156	1.72	2.68
157	1.69	2.60
158	1.66	2.53
159	1.65	2.47
160	1.60	2.40
161	1.57	2.31
162	1.56	2.25
163	1.53	2.18
164	1.51	2.10
165	1.48	2.06

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166	1.46	1.98
167	1.41	1.93
168	1.38	1.85
169	1.35	1.78
170	1.32	1.71
171	1.29	1.63
172	1.26	1.57
173	1.23	1.50
174	1.21	1.43
175	1.18	1.35
176	1.18	1.28
177	1.18	1.22
178	1.18	1.19
179	1.18	1.19
180	1.18	1.18

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 16560 SMALL SPACE LED LUMINAIRE WITH COLOR-SELECT TECHNOLOGY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	130.70	12.40	12.40
0-30	277.93	26.40	26.40
0-40	456.04	43.40	43.30
0-60	809.31	77.00	76.90
0-80	1010.31	96.10	96.00
0-90	1032.49	98.20	98.10
10-90	998.69	95.00	94.90
20-40	325.34	31.00	30.90
20-50	510.73	48.60	48.50
40-70	481.13	45.80	45.70
60-80	201.00	19.10	19.10
70-80	73.14	7.00	6.90
80-90	22.18	2.10	2.10
90-110	7.76	0.70	0.70
90-120	11.39	1.10	1.10
90-130	14.50	1.40	1.40
90-150	18.24	1.70	1.70
90-180	19.92	1.90	1.90
110-180	12.16	1.20	1.20
0-180	1052.41	100.10	100.00

Total Luminaire Efficiency = 100.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.79
10-20	96.91
20-30	147.23
30-40	178.11
40-50	185.39
50-60	167.88
60-70	127.86
70-80	73.14
80-90	22.18
90-100	4.02
100-110	3.74
110-120	3.63
120-130	3.11
130-140	2.22
140-150	1.52
150-160	1.04
160-170	0.51
170-180	0.13

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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	64	87	77	70	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	54	49	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	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

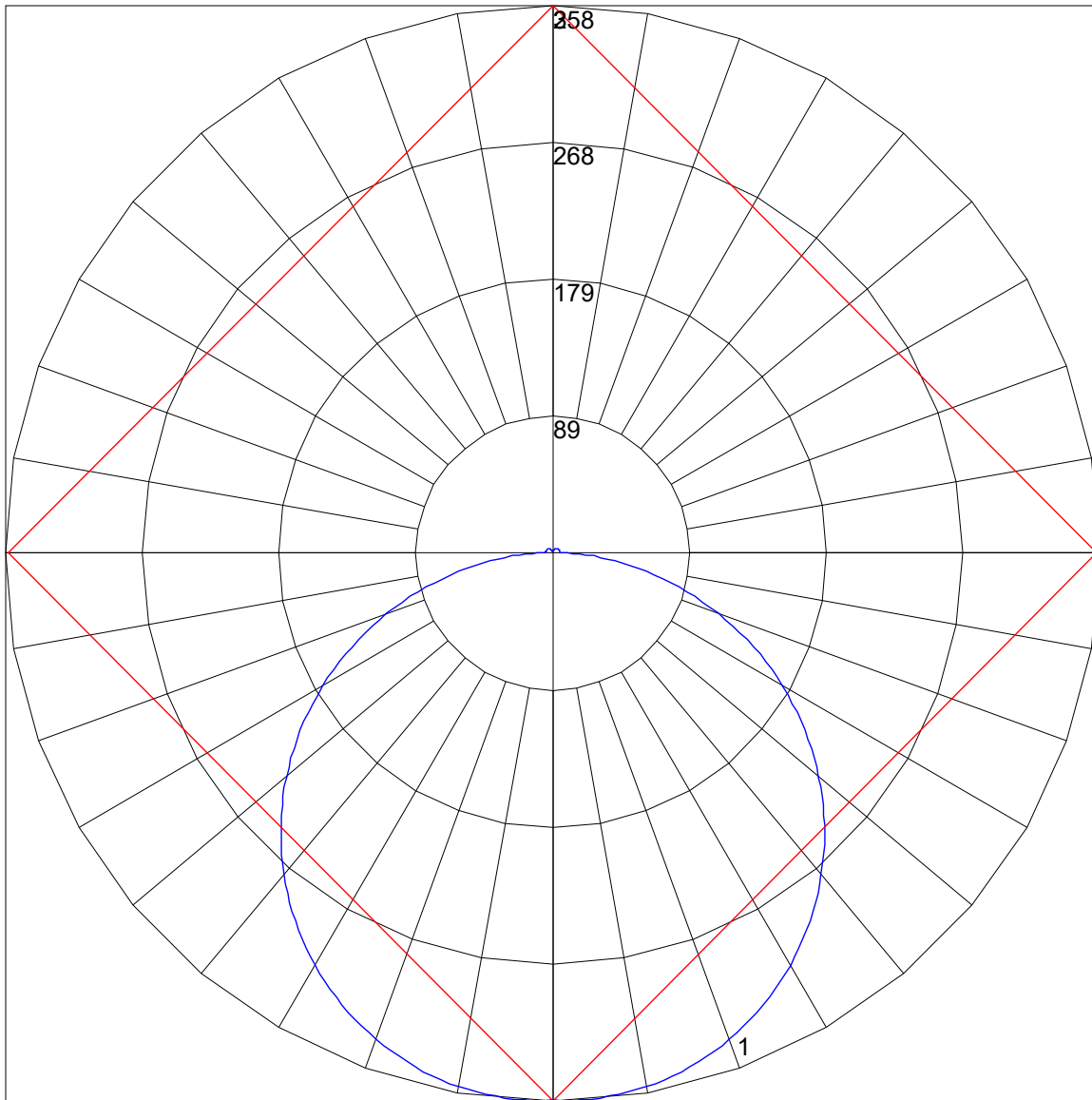
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.7	23.3	22.1	23.6	24.0	22.3	23.9	22.7	24.3	24.6
	3H	23.3	24.7	23.7	25.1	25.5	24.3	25.8	24.7	26.1	26.5
	4H	23.8	25.1	24.2	25.5	26.0	25.1	26.5	25.5	26.9	27.3
	6H	24.1	25.3	24.5	25.7	26.2	25.8	27.0	26.2	27.5	27.9
	8H	24.1	25.3	24.6	25.8	26.2	26.1	27.3	26.5	27.7	28.1
	12H	24.1	25.3	24.6	25.7	26.2	26.3	27.4	26.7	27.8	28.3
4H	2H	22.4	23.7	22.8	24.1	24.5	22.9	24.3	23.3	24.6	25.1
	3H	24.2	25.4	24.6	25.8	26.2	25.1	26.2	25.5	26.7	27.1
	4H	24.8	25.9	25.3	26.3	26.8	26.0	27.1	26.5	27.5	28.0
	6H	25.3	26.2	25.7	26.6	27.1	26.8	27.7	27.3	28.2	28.7
	8H	25.3	26.2	25.8	26.7	27.2	27.2	28.0	27.6	28.5	29.0
	12H	25.4	26.1	25.9	26.6	27.1	27.5	28.2	28.0	28.7	29.2
8H	4H	25.2	26.1	25.7	26.6	27.1	26.3	27.1	26.8	27.6	28.1
	6H	25.8	26.5	26.3	27.0	27.5	27.2	27.9	27.7	28.4	29.0
	8H	25.9	26.5	26.4	27.1	27.6	27.6	28.3	28.2	28.8	29.3
	12H	26.0	26.5	26.5	27.0	27.6	28.0	28.6	28.6	29.1	29.7
12H	4H	25.3	26.1	25.8	26.6	27.1	26.3	27.1	26.8	27.6	28.1
	6H	25.9	26.5	26.4	27.0	27.6	27.3	27.9	27.8	28.4	29.0
	8H	26.1	26.6	26.6	27.1	27.7	27.7	28.3	28.3	28.8	29.4

Maximum UGR = 29.7

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POLAR GRAPH



Maximum Candela = 357.64 Located At Horizontal Angle = 90, Vertical Angle = 2

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

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