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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN-4171-SEED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] TH-1157A
[ISSUE DATE] 2020/4/30 16:32
[MANUFAC]
[LUMCAT]
[LUMINAIRE] FSN-4171-SEED-BRSS
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.1 V
[_CURRENT] 0.072 A
[_POWERFACTOR] 0.944
[TESTLAB] Inventfine instruments
[_TESTINST] GPM-1800B
[_TESTDIST] 8.499 m
[_TESTTEMPERATURE] 26
[_TESTHUMIDITY] 65
[_TESTOPERATOR] Jacky tang
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	851 (1 lamp)
Total Lamp Lumens	851
Luminaire Lumens	851
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	8.18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	129.42	129.42	129.42	129.42	129.42
1	129.50	129.39	129.03	129.63	129.50
2	129.41	129.04	128.72	129.08	129.41
3	129.18	129.18	128.50	129.08	129.18
4	129.09	130.12	128.28	129.50	129.09
5	128.98	130.29	128.38	129.12	128.98
6	129.01	130.45	128.08	129.07	129.01
7	129.03	130.48	128.04	130.30	129.03
8	128.50	130.16	128.10	126.43	128.50
9	127.70	129.96	127.74	120.46	127.70
10	127.17	129.67	129.02	120.26	127.17
11	126.41	129.83	128.31	120.44	126.41
12	125.80	129.45	130.11	119.38	125.80
13	124.38	128.27	130.22	117.14	124.38
14	125.00	127.85	128.62	115.73	125.00
15	125.90	128.21	127.13	115.55	125.90
16	122.44	127.70	124.48	115.28	122.44
17	118.19	126.47	123.48	115.47	118.19
18	115.89	128.40	122.11	114.89	115.89
19	111.69	128.56	121.82	114.62	111.69
20	110.24	126.78	120.14	114.67	110.24
21	107.98	122.92	118.60	114.60	107.98
22	107.44	121.11	117.48	113.93	107.44
23	107.78	120.01	116.77	112.18	107.78
24	104.01	119.01	114.68	111.32	104.01
25	103.07	116.95	114.25	111.36	103.07
26	103.96	113.60	113.74	110.34	103.96
27	102.10	111.40	112.28	109.62	102.10
28	99.19	110.28	110.94	109.93	99.19
29	99.97	108.92	111.13	110.13	99.97
30	100.39	107.01	110.54	107.65	100.39
31	100.22	105.79	110.44	107.29	100.22
32	99.64	105.06	110.19	106.55	99.64
33	99.56	102.17	108.97	105.26	99.56
34	100.30	100.44	107.02	104.12	100.30
35	100.61	100.43	105.56	102.33	100.61
36	100.83	99.89	104.62	102.73	100.83
37	100.97	99.82	104.54	102.50	100.97
38	100.82	100.17	104.10	102.56	100.82
39	99.94	100.33	104.37	102.20	99.94
40	99.38	100.13	103.34	102.01	99.38
41	99.27	100.21	102.55	101.26	99.27
42	99.19	100.30	102.00	100.93	99.19
43	97.73	100.65	100.95	100.96	97.73
44	97.17	100.68	100.34	100.56	97.17
45	96.58	100.54	99.46	99.84	96.58
46	96.10	99.57	98.66	99.43	96.10
47	94.10	98.96	98.35	99.17	94.10
48	92.79	97.95	98.13	97.99	92.79
49	92.13	97.10	97.60	97.43	92.13
50	91.62	96.49	96.89	96.72	91.62
51	91.48	96.02	95.97	96.18	91.48
52	91.18	95.93	95.38	95.76	91.18
53	91.41	95.08	94.82	95.87	91.41

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CANDELA TABULATION - (Cont.)

54	91.06	94.22	94.69	95.71	91.06
55	90.11	93.56	94.36	95.75	90.11
56	89.48	93.32	94.20	95.62	89.48
57	88.72	93.01	93.22	95.40	88.72
58	87.27	92.50	93.53	94.83	87.27
59	86.63	92.04	93.69	93.71	86.63
60	86.17	91.74	93.66	93.05	86.17
61	85.66	91.32	94.40	92.61	85.66
62	84.69	90.86	94.45	91.59	84.69
63	84.26	90.49	93.63	90.98	84.26
64	83.81	89.71	93.43	90.54	83.81
65	83.01	89.25	92.72	89.78	83.01
66	81.44	88.81	92.14	88.20	81.44
67	80.64	88.31	91.53	87.31	80.64
68	80.86	88.05	91.14	85.36	80.86
69	81.15	87.68	90.17	84.25	81.15
70	81.42	87.39	89.42	83.39	81.42
71	81.64	86.04	89.24	82.86	81.64
72	81.81	85.40	88.14	82.90	81.81
73	81.89	84.28	86.95	83.49	81.89
74	81.57	82.76	85.78	84.32	81.57
75	81.46	80.47	85.11	84.58	81.46
76	80.98	79.51	84.63	83.98	80.98
77	80.26	79.59	83.63	82.86	80.26
78	79.03	79.98	82.79	82.08	79.03
79	78.29	80.33	82.02	81.09	78.29
80	77.42	80.40	81.50	80.51	77.42
81	75.66	80.41	80.55	79.29	75.66
82	71.78	80.48	79.96	77.94	71.78
83	70.97	80.48	78.89	76.66	70.97
84	72.73	80.29	77.22	75.13	72.73
85	74.29	80.04	76.68	72.72	74.29
86	75.85	79.89	75.89	70.28	75.85
87	76.73	79.88	75.50	64.61	76.73
88	75.95	79.71	75.58	60.37	75.95
89	74.21	79.47	75.64	58.77	74.21
90	74.00	78.59	75.27	58.81	74.00
91	69.90	77.25	75.07	58.25	69.90
92	65.90	75.41	75.00	57.10	65.90
93	64.51	72.52	74.88	56.14	64.51
94	62.63	66.95	74.06	55.26	62.63
95	61.62	63.76	72.13	55.38	61.62
96	60.69	62.12	70.65	55.48	60.69
97	60.20	61.42	68.85	56.04	60.20
98	56.35	60.21	67.30	59.34	56.35
99	54.99	58.38	66.33	61.76	54.99
100	53.94	57.17	65.96	64.29	53.94
101	54.24	56.28	65.52	66.99	54.24
102	59.99	55.86	63.44	68.60	59.99
103	64.41	56.47	61.39	70.47	64.41
104	65.79	57.73	58.89	71.93	65.79
105	66.75	60.33	56.62	72.41	66.75
106	68.05	63.12	56.40	71.52	68.05
107	67.13	65.36	56.41	72.04	67.13
108	70.21	67.53	58.26	72.21	70.21
109	71.10	68.41	61.95	72.61	71.10

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CANDELA TABULATION - (Cont.)

110	71.20	68.22	65.42	72.54	71.20
111	71.10	68.04	66.64	72.10	71.10
112	70.68	67.59	66.00	71.59	70.68
113	68.29	67.28	65.78	70.10	68.29
114	67.89	66.46	65.60	68.48	67.89
115	65.75	65.66	67.68	65.57	65.75
116	59.29	65.38	67.15	61.29	59.29
117	59.30	64.59	65.83	58.01	59.30
118	59.47	62.99	66.17	56.80	59.47
119	59.36	59.62	65.46	55.34	59.36
120	58.56	56.39	61.04	53.30	58.56
121	58.53	55.42	55.29	50.41	58.53
122	58.61	53.74	53.25	46.76	58.61
123	58.45	51.24	51.62	42.64	58.45
124	58.22	51.53	50.62	35.71	58.22
125	57.19	48.15	49.57	28.65	57.19
126	55.55	46.59	48.44	16.97	55.55
127	53.86	45.16	47.32	9.21	53.86
128	51.13	43.47	46.12	7.40	51.13
129	48.56	40.50	44.45	3.33	48.56
130	46.37	38.05	42.63	1.66	46.37
131	44.24	37.75	40.83	1.55	44.24
132	42.08	36.02	38.45	1.46	42.08
133	38.64	34.00	36.18	1.35	38.64
134	35.29	31.58	30.81	1.28	35.29
135	31.28	29.10	26.27	1.30	31.28
136	26.53	27.20	22.27	1.29	26.53
137	22.09	24.37	17.18	1.29	22.09
138	18.16	22.06	9.41	1.30	18.16
139	16.16	18.19	3.01	1.32	16.16
140	15.11	13.50	2.00	1.35	15.11
141	14.07	8.30	1.60	1.38	14.07
142	12.33	3.38	1.48	3.20	12.33
143	9.15	3.20	1.40	1.67	9.15
144	5.38	3.57	1.36	1.58	5.38
145	3.35	4.01	1.30	1.63	3.35
146	3.35	4.73	1.27	1.70	3.35
147	3.42	5.82	1.27	1.87	3.42
148	3.77	7.52	1.28	2.01	3.77
149	4.18	10.14	1.31	2.02	4.18
150	5.01	13.39	1.79	2.11	5.01
151	8.34	18.52	3.23	2.81	8.34
152	12.86	20.78	10.23	4.24	12.86
153	14.59	20.91	10.41	5.56	14.59
154	14.41	20.71	9.85	7.27	14.41
155	14.76	20.01	9.67	8.22	14.76
156	12.99	19.02	8.70	9.46	12.99
157	13.73	17.89	8.32	11.05	13.73
158	13.03	16.60	8.10	12.33	13.03
159	11.36	15.54	7.82	13.47	11.36
160	10.55	14.11	7.36	13.20	10.55
161	6.59	10.81	6.15	12.20	6.59
162	2.57	5.06	2.31	9.20	2.57
163	2.51	2.33	1.73	4.03	2.51
164	2.47	2.32	2.08	2.85	2.47
165	2.47	2.27	2.28	2.96	2.47

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166	2.47	2.23	2.31	2.83	2.47
167	2.45	2.15	2.25	2.83	2.45
168	2.43	2.14	2.19	2.88	2.43
169	2.32	2.19	2.19	2.85	2.32
170	2.30	2.30	2.22	2.86	2.30
171	2.31	2.33	2.23	2.89	2.31
172	2.27	2.28	2.24	2.93	2.27
173	2.25	2.23	2.28	2.94	2.25
174	2.24	2.26	2.37	2.93	2.24
175	2.24	2.35	2.30	2.88	2.24
176	2.28	2.42	2.26	2.86	2.28
177	2.36	2.61	2.24	2.85	2.36
178	2.43	2.74	2.21	2.72	2.43
179	2.50	2.66	2.20	2.74	2.50
180	1.86	2.76	2.26	2.34	1.86

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	47.01	5.50	5.50
0-30	98.47	11.60	11.60
0-40	163.23	19.20	19.20
0-60	323.37	38.00	38.00
0-80	498.69	58.60	58.60
0-90	581.15	68.30	68.30
10-90	568.90	66.90	66.80
20-40	116.22	13.70	13.70
20-50	192.63	22.60	22.60
40-70	247.88	29.10	29.10
60-80	175.32	20.60	20.60
70-80	87.58	10.30	10.30
80-90	82.47	9.70	9.70
90-110	138.42	16.30	16.30
90-120	202.97	23.90	23.90
90-130	243.64	28.60	28.60
90-150	263.06	30.90	30.90
90-180	269.86	31.70	31.70
110-180	131.44	15.40	15.40
0-180	851.01	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	12.25
10-20	34.76
20-30	51.46
30-40	64.75
40-50	76.41
50-60	83.73
60-70	87.74
70-80	87.58
80-90	82.47
90-100	70.33
100-110	68.09
110-120	64.55
120-130	40.67
130-140	16.78
140-150	2.64
150-160	5.40
160-170	1.17
170-180	0.23

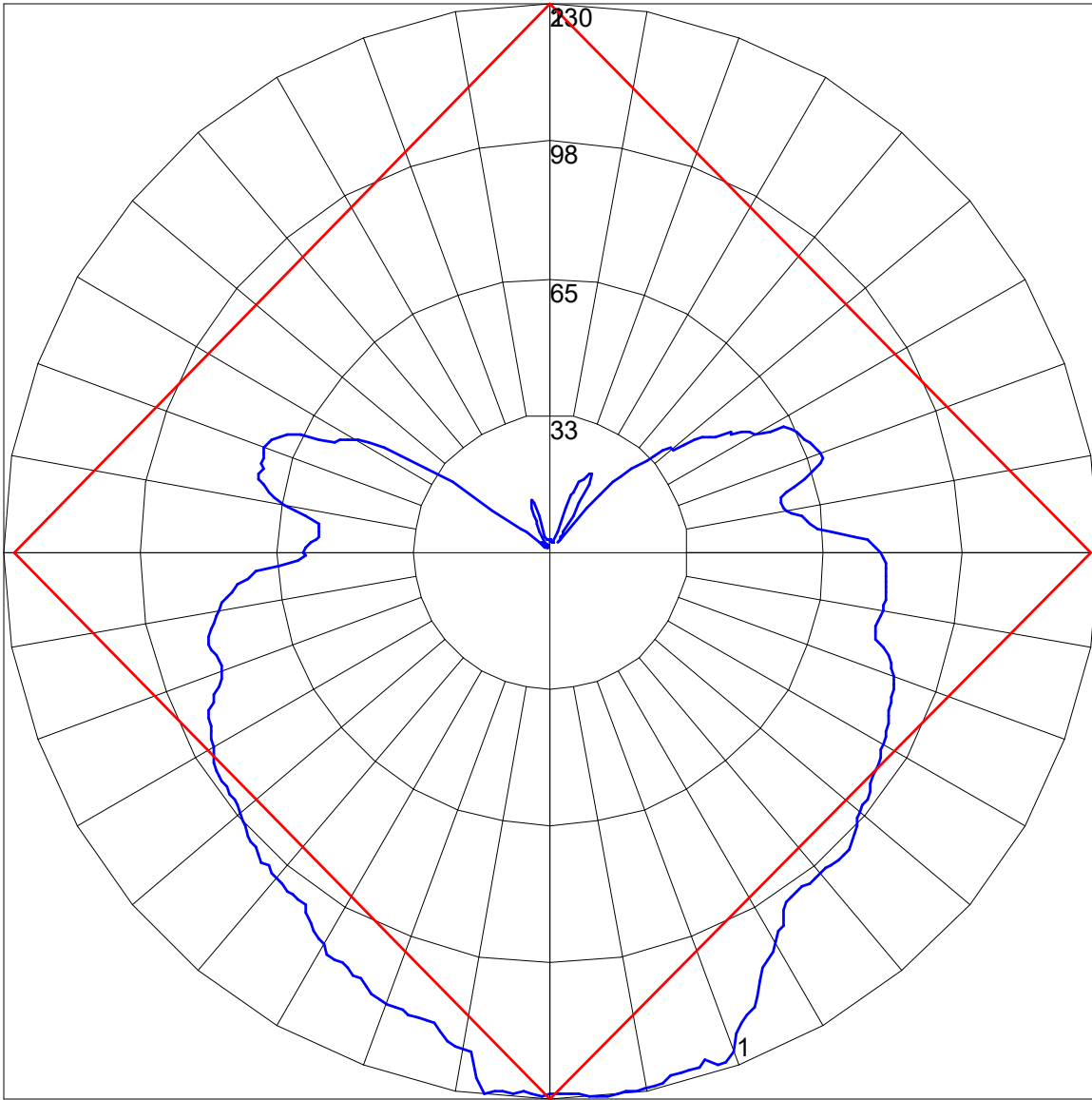
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	97	91	85	80	80	91	85	80	76	75	71	67	66	63	60	57	55	52	48
2	87	77	69	62	62	81	72	65	59	63	58	52	55	51	47	48	44	41	37
3	78	66	57	50	50	73	62	54	47	55	48	42	48	42	38	41	37	33	29
4	71	58	48	41	41	66	54	46	39	48	41	35	42	36	31	36	31	27	24
5	65	51	42	35	35	61	48	39	33	42	35	30	37	31	26	32	27	23	20
6	60	46	36	30	30	56	43	34	28	38	31	25	33	27	23	29	24	20	17
7	55	41	32	26	26	51	39	30	25	34	27	22	30	24	20	26	21	18	15
8	51	37	29	23	23	48	35	27	22	31	24	20	28	22	18	24	19	16	13
9	48	34	26	20	20	45	32	24	19	29	22	17	25	20	16	22	17	14	12
10	45	31	23	18	18	42	30	22	17	26	20	16	23	18	14	21	16	13	11

POLAR GRAPH



Maximum Candela = 130.48 Located At Horizontal Angle = 90, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)