



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SQRG-22-L42-835-FFG125.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20105.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 08-NOV-2017

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 12-28 LED 22"ARRAYS 2x2' RECESSED LUMINAIRE

[MORE] WHITE FLAT REFLECTOR w/FROSTED ACRYLIC LENS IN DOOR

[MORE] 2 EVERLINE #D15CC55UNVTW-C @ 1.38A EACH

[LUMCAT] SQRG-22-L42-835-FFG125

[LAMPCAT] HLM2228\_5630REVA 835CCT 10560202

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	46.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4662	4687	4703
55	4488	4501	4532
65	4184	4178	4247
75	3567	3499	3611
85	2985	2855	3087

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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>
0	1555.994	1555.994	1555.994	1555.994	1555.994
5	1523.209	1522.104	1521.367	1522.104	1522.104
10	1507.737	1507.737	1507.737	1507.737	1509.579
15	1468.322	1466.480	1469.058	1469.058	1469.058
20	1382.860	1383.597	1383.597	1386.175	1386.175
25	1294.083	1294.083	1295.925	1297.766	1297.766
30	1192.781	1193.886	1195.360	1197.202	1197.938
35	1116.897	1117.634	1119.476	1122.054	1122.791
40	1048.749	1050.959	1052.064	1052.801	1054.642
45	961.445	965.129	966.602	969.917	969.917
50	856.828	859.407	860.143	863.827	867.142
55	750.737	750.737	752.948	757.368	758.105
60	617.019	617.019	619.598	622.176	625.492
65	515.718	514.244	514.981	518.296	523.453
70	392.682	390.104	389.367	393.419	398.576
75	269.278	265.226	264.121	268.542	272.594
80	170.555	165.398	165.398	168.713	174.607
85	75.884	73.306	72.569	75.147	78.463
90	8.473	10.314	10.314	10.314	10.314

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	556.85	N.A.	13.40
0-30	1153.26	N.A.	27.80
0-40	1856.51	N.A.	44.70
0-60	3268.47	N.A.	78.70
0-80	4063.76	N.A.	97.90
0-90	4152.85	N.A.	100.00
10-90	4007.66	N.A.	96.50
20-40	1299.66	N.A.	31.30
20-50	2042.85	N.A.	49.20
40-70	1918.46	N.A.	46.20
60-80	795.29	N.A.	19.20
70-80	288.79	N.A.	7.00
80-90	89.09	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4152.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.19
10-20	411.66
20-30	596.41
30-40	703.25
40-50	743.19
50-60	668.77
60-70	506.50
70-80	288.79
80-90	89.09
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

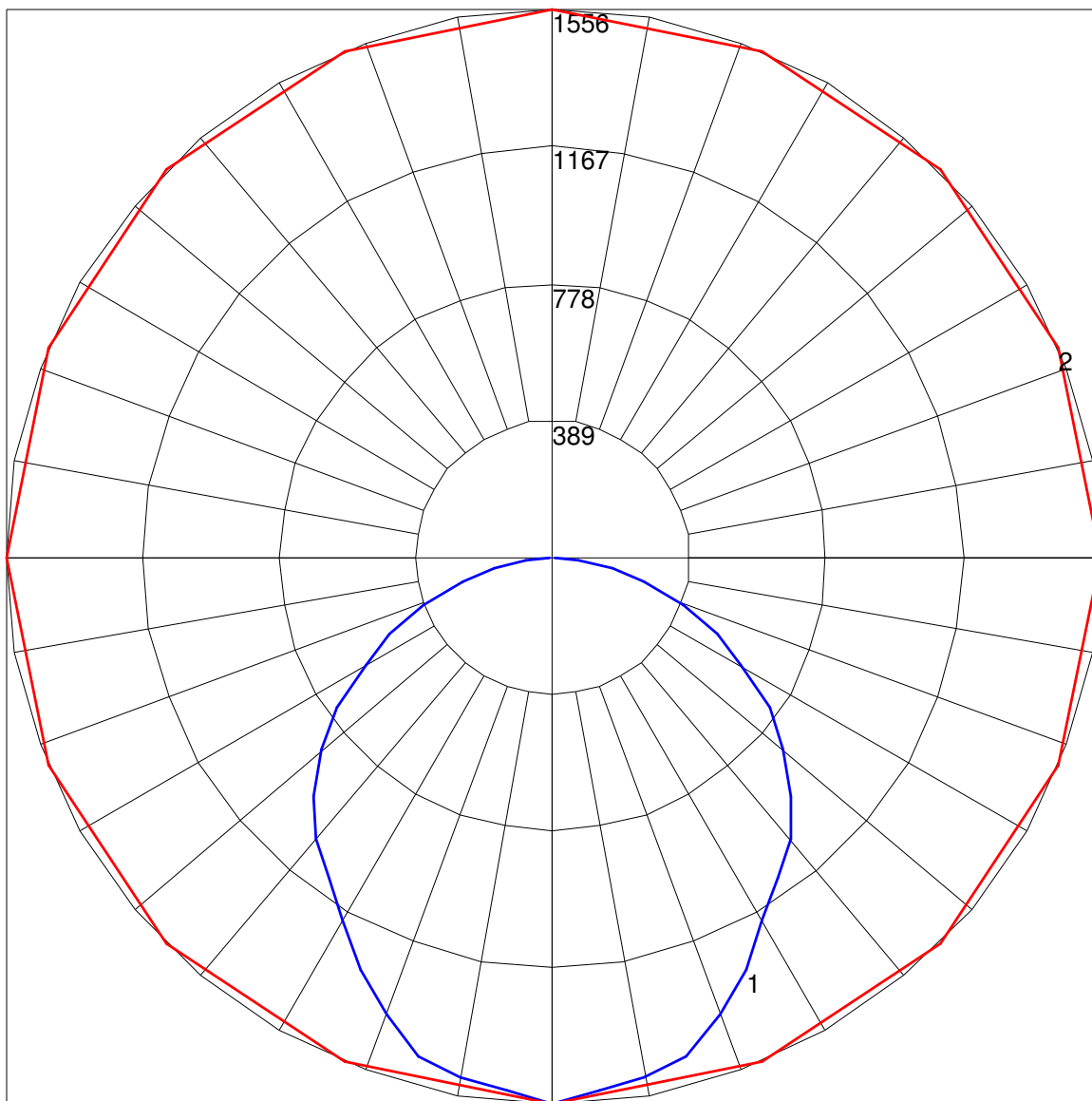
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	44	44	44	44	43	43	43	43	41	41	41	39	39	39	38	38	38	37
1	40	38	37	35	39	37	36	35	36	35	34	34	33	32	33	32	32	31
2	36	33	31	29	35	33	30	28	31	29	28	30	28	27	29	28	26	26
3	33	29	26	24	32	29	26	24	28	25	23	27	24	23	26	24	22	22
4	30	26	23	20	30	25	22	20	24	22	20	24	21	19	23	21	19	18
5	28	23	20	17	27	23	20	17	22	19	17	21	19	17	21	18	17	16
6	26	21	18	15	25	21	17	15	20	17	15	19	17	15	19	16	15	14
7	24	19	16	13	23	19	16	13	18	15	13	18	15	13	17	15	13	12
8	22	17	14	12	22	17	14	12	17	14	12	16	14	12	16	13	12	11
9	21	16	13	11	20	16	13	11	15	13	11	15	12	11	14	12	11	10
10	20	15	12	10	19	14	12	10	14	11	10	14	11	10	13	11	10	9

POLAR GRAPH



Maximum Candela = 1555.994 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)