



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SQRG-33-L67-835-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 3x3' RECESSED LUMINAIRE

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

[MORE] EVERLINE #D15CC55UNVTW-C

[LUMCAT] SQRG-33-L67-835-FFG125-DRV-UNV

[LAMPCAT] HLM2228_5630REVA 835CCT 10560202

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	74.7
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)	2.77 ft
Luminous Width (90-270)	2.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3092	3108	3119
55	2976	2985	3006
65	2775	2771	2817
75	2366	2321	2395
85	1980	1893	2047

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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	2526.382	2526.382	2526.382	2526.382	2526.382
5	2473.151	2471.357	2470.160	2471.357	2471.357
10	2448.031	2448.031	2448.031	2448.031	2451.021
15	2384.034	2381.043	2385.230	2385.230	2385.230
20	2245.274	2246.470	2246.470	2250.657	2250.657
25	2101.132	2101.132	2104.122	2107.113	2107.113
30	1936.654	1938.448	1940.840	1943.831	1945.027
35	1813.445	1814.641	1817.631	1821.818	1823.014
40	1702.796	1706.384	1708.179	1709.375	1712.365
45	1561.046	1567.027	1569.419	1574.802	1574.802
50	1391.185	1395.371	1396.568	1402.549	1407.932
55	1218.931	1218.931	1222.520	1229.697	1230.893
60	1001.821	1001.821	1006.007	1010.194	1015.577
65	837.343	834.950	836.146	841.529	849.903
70	637.577	633.390	632.194	638.773	647.146
75	437.212	430.633	428.839	436.016	442.595
80	276.921	268.548	268.548	273.931	283.500
85	123.209	119.022	117.826	122.013	127.396
90	13.756	16.747	16.747	16.747	16.747

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	904.13	N.A.	13.40
0-30	1872.49	N.A.	27.80
0-40	3014.32	N.A.	44.70
0-60	5306.84	N.A.	78.70
0-80	6598.11	N.A.	97.90
0-90	6742.75	N.A.	100.00
10-90	6507.02	N.A.	96.50
20-40	2110.19	N.A.	31.30
20-50	3316.86	N.A.	49.20
40-70	3114.89	N.A.	46.20
60-80	1291.27	N.A.	19.20
70-80	468.90	N.A.	7.00
80-90	144.64	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	6742.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.74
10-20	668.39
20-30	968.36
30-40	1141.83
40-50	1206.68
50-60	1085.84
60-70	822.37
70-80	468.90
80-90	144.64
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

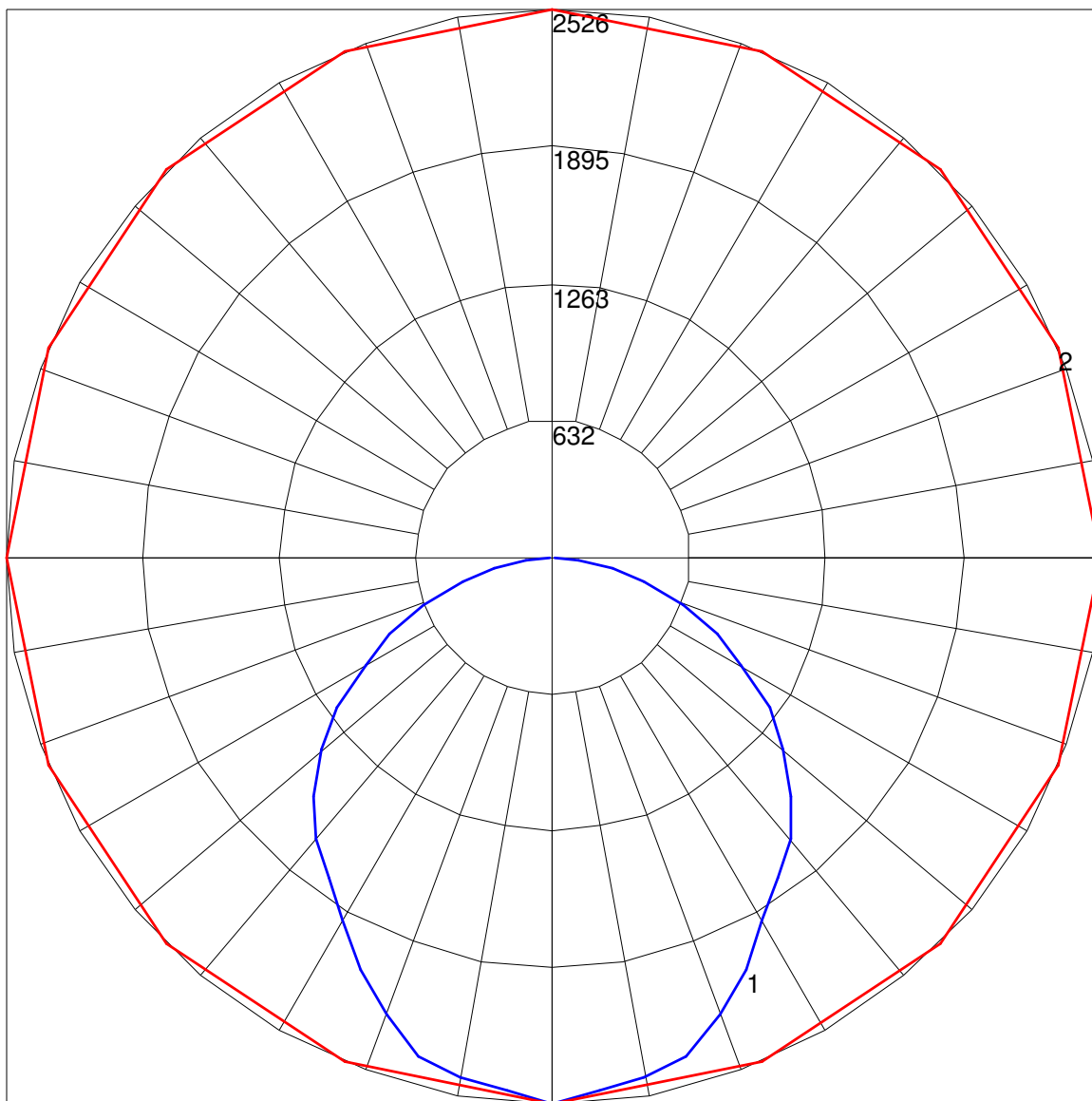
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	71	70	70	70	70	66	66	66	64	64	64	61	61	61	60
1	65	62	59	57	63	61	58	56	58	56	54	56	54	53	54	52	51	50
2	59	54	50	47	57	53	49	46	51	48	45	49	46	44	47	45	43	42
3	54	47	43	39	52	47	42	38	45	41	38	43	40	37	42	39	36	35
4	49	42	37	33	48	41	36	33	40	35	32	38	35	32	37	34	31	30
5	45	38	32	28	44	37	32	28	36	31	28	34	31	27	33	30	27	26
6	42	34	28	25	41	33	28	25	32	28	24	31	27	24	30	27	24	23
7	39	31	25	22	38	30	25	22	29	25	22	28	24	21	28	24	21	20
8	36	28	23	19	35	28	23	19	27	22	19	26	22	19	25	22	19	18
9	34	26	21	18	33	25	21	17	25	20	17	24	20	17	23	20	17	16
10	32	24	19	16	31	23	19	16	23	19	16	22	18	16	22	18	16	15

POLAR GRAPH



Maximum Candela = 2526.382 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.)