



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L15-8FS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 25-OCT-2019

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

[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-L15-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	180
Total Luminaire Watts	8.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16097	15405	15216
55	15681	14845	14567
65	14597	13464	13080
75	12275	10870	10469
85	6357	6096	5091

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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	538.472	538.472	538.472	538.472	538.472
5	542.406	539.034	536.786	535.287	534.725
10	536.411	533.038	530.415	528.916	528.167
15	527.418	523.108	520.485	518.237	518.986
20	513.178	509.618	506.621	504.372	505.684
25	495.192	492.194	487.885	486.011	485.262
30	474.957	470.648	465.776	464.277	460.343
35	449.101	445.541	439.921	438.796	434.675
40	419.124	411.629	408.632	406.571	405.446
45	384.087	374.907	373.033	371.347	370.035
50	345.304	336.873	335.374	334.624	330.315
55	303.897	295.092	293.780	293.780	290.033
60	258.931	251.062	247.315	249.001	243.380
65	208.906	203.098	198.789	202.348	194.854
70	158.319	151.012	148.764	152.511	146.703
75	108.107	100.987	100.987	100.987	98.739
80	57.519	56.395	56.395	55.458	53.210
85	19.298	20.235	21.546	20.610	18.736
90	1.686	1.686	2.623	1.686	1.686
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	198.30	N.A.	12.50
0-30	423.83	N.A.	26.70
0-40	699.67	N.A.	44.10
0-60	1251.41	N.A.	78.90
0-80	1558.62	N.A.	98.30
0-90	1585.44	N.A.	100.00
10-90	1534.35	N.A.	96.70
20-40	501.36	N.A.	31.60
20-50	790.02	N.A.	49.80
40-70	750.73	N.A.	47.30
60-80	307.21	N.A.	19.40
70-80	108.22	N.A.	6.80
80-90	26.82	N.A.	1.70
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1585.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.09
10-20	147.21
20-30	225.53
30-40	275.84
40-50	288.66
50-60	263.08
60-70	198.99
70-80	108.22
80-90	26.82
90-100	0.53
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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	59
1	64	61	59	56	62	60	57	55	57	55	54	55	53	52	53	52	50	49
2	58	53	49	46	56	52	48	45	50	47	44	48	45	43	46	44	42	41
3	53	47	42	38	51	46	41	38	44	40	37	42	39	36	41	38	36	34
4	48	41	36	32	47	40	36	32	39	35	31	38	34	31	36	33	30	29
5	44	37	31	28	43	36	31	27	35	30	27	34	30	27	33	29	26	25
6	41	33	28	24	40	32	27	24	31	27	24	30	26	23	29	26	23	22
7	38	30	25	21	37	29	25	21	29	24	21	28	24	21	27	23	21	19
8	35	27	22	19	34	27	22	19	26	22	19	25	21	18	25	21	18	17
9	33	25	20	17	32	25	20	17	24	20	17	23	19	17	23	19	17	15
10	31	23	18	15	30	23	18	15	22	18	15	22	18	15	21	18	15	14

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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

X=2H	Y=2H	20.7	22.4	21.1	22.7	23.0	20.6	22.3	21.0	22.6	22.9
	3H	22.5	24.0	22.9	24.3	24.7	22.4	23.9	22.7	24.2	24.5
	4H	23.2	24.6	23.6	24.9	25.3	23.0	24.4	23.4	24.7	25.1
	6H	23.6	24.9	24.0	25.2	25.6	23.3	24.6	23.7	25.0	25.4
	8H	23.7	24.9	24.1	25.3	25.7	23.4	24.7	23.9	25.1	25.5
	12H	23.7	24.9	24.2	25.3	25.7	23.5	24.7	23.9	25.1	25.5

UGR Viewed Endwise

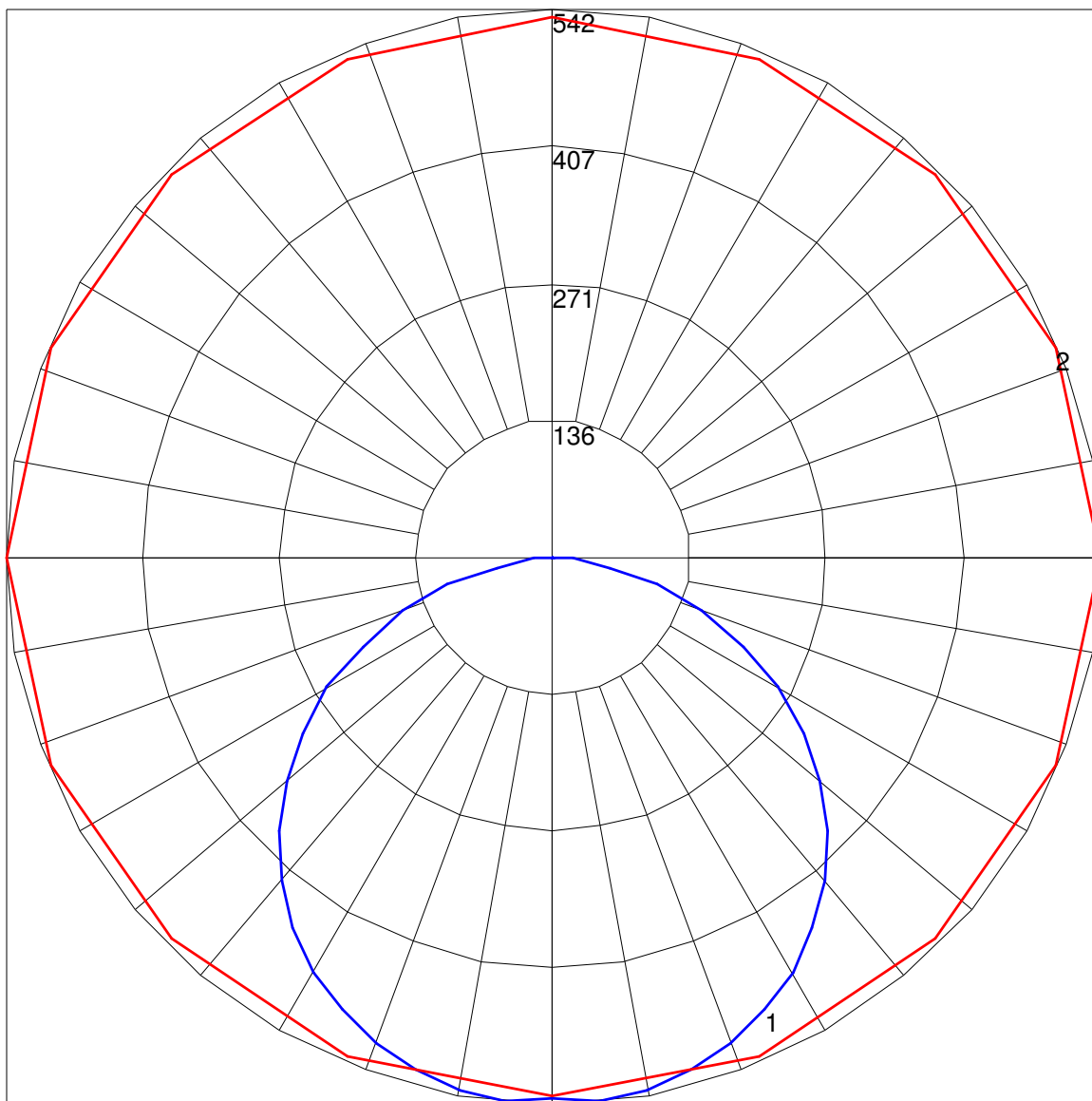
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	24.6	25.4	25.1	25.9	26.3

8H	4H	24.3	25.2	24.8	25.6	26.1	24.2	25.0	24.6	25.5	25.9
	6H	24.9	25.6	25.4	26.1	26.6	24.8	25.5	25.3	26.0	26.5
	8H	25.1	25.8	25.6	26.3	26.8	25.0	25.6	25.5	26.1	26.6
	12H	25.2	25.8	25.8	26.3	26.9	25.1	25.7	25.6	26.2	26.7

12H	4H	24.3	25.1	24.8	25.6	26.0	24.2	25.0	24.7	25.4	25.9
	6H	25.0	25.6	25.5	26.1	26.6	24.8	25.5	25.3	25.9	26.5
	8H	25.2	25.8	25.7	26.3	26.8	25.0	25.6	25.5	26.1	26.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 542.406 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.)