



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L27-8FS-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

[ISSUE DATE] 25-OCT-2019

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

[LUMINAIRE] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L27-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	186
Total Luminaire Watts	14.5
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)	3.62 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	12259	11726	11569
55	11950	11305	11075
65	11138	10262	9944
75	9391	8299	7959
85	4926	4689	3871

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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	916.352	916.352	916.352	916.352	916.352
5	923.048	917.309	913.483	910.932	909.976
10	912.845	907.106	902.642	900.092	898.816
15	897.541	890.207	885.744	881.918	883.193
20	873.309	867.251	862.149	858.323	860.555
25	842.700	837.598	830.265	827.077	825.801
30	808.265	800.932	792.642	790.091	783.395
35	764.265	758.207	748.641	746.728	739.714
40	713.250	700.496	695.395	691.888	689.975
45	653.627	638.003	634.815	631.945	629.713
50	587.626	573.278	570.728	569.452	562.119
55	517.162	502.176	499.945	499.945	493.568
60	440.640	427.249	420.872	423.741	414.176
65	355.509	345.625	338.292	344.350	331.596
70	269.422	256.987	253.161	259.538	249.653
75	183.972	171.856	171.856	171.856	168.030
80	97.885	95.972	95.972	94.377	90.551
85	32.841	34.435	36.667	35.073	31.884
90	2.870	2.870	4.464	2.870	2.870
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	337.46	N.A.	12.50
0-30	721.26	N.A.	26.70
0-40	1190.67	N.A.	44.10
0-60	2129.6	N.A.	78.90
0-80	2652.4	N.A.	98.30
0-90	2698.04	N.A.	100.00
10-90	2611.1	N.A.	96.70
20-40	853.20	N.A.	31.60
20-50	1344.43	N.A.	49.80
40-70	1277.57	N.A.	47.30
60-80	522.80	N.A.	19.40
70-80	184.16	N.A.	6.80
80-90	45.64	N.A.	1.70
90-110	0.89	N.A.	0.00
90-120	0.89	N.A.	0.00
90-130	0.89	N.A.	0.00
90-150	0.89	N.A.	0.00
90-180	0.89	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2698.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.94
10-20	250.52
20-30	383.79
30-40	469.41
40-50	491.23
50-60	447.71
60-70	338.64
70-80	184.16
80-90	45.64
90-100	0.89
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	38	38	38	38	37	37	37	37	35	35	35	34	34	34	33	33	33	32
1	35	33	32	31	34	32	31	30	31	30	29	30	29	28	29	28	27	27
2	31	29	27	25	31	28	26	25	27	25	24	26	25	23	25	24	23	22
3	29	25	23	21	28	25	22	20	24	22	20	23	21	20	22	21	19	19
4	26	22	20	17	25	22	19	17	21	19	17	20	18	17	20	18	17	16
5	24	20	17	15	23	20	17	15	19	17	15	18	16	15	18	16	14	14
6	22	18	15	13	22	18	15	13	17	15	13	17	14	13	16	14	13	12
7	21	16	13	11	20	16	13	11	15	13	11	15	13	11	15	13	11	11
8	19	15	12	10	19	15	12	10	14	12	10	14	12	10	13	11	10	9
9	18	14	11	9	17	13	11	9	13	11	9	13	11	9	12	10	9	8
10	17	13	10	8	16	12	10	8	12	10	8	12	10	8	11	10	8	8

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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	24.7	26.4	25.1	26.7	27.0	24.6	26.3	25.0	26.6	26.9
	3H	26.5	28.0	26.9	28.3	28.7	26.4	27.9	26.7	28.2	28.5
	4H	27.2	28.6	27.6	28.9	29.3	27.0	28.4	27.4	28.7	29.1
	6H	27.6	28.9	28.0	29.2	29.6	27.3	28.6	27.7	29.0	29.4
	8H	27.7	28.9	28.1	29.3	29.7	27.4	28.7	27.9	29.1	29.5
	12H	27.7	28.9	28.2	29.3	29.7	27.5	28.7	27.9	29.1	29.5

UGR Viewed Endwise

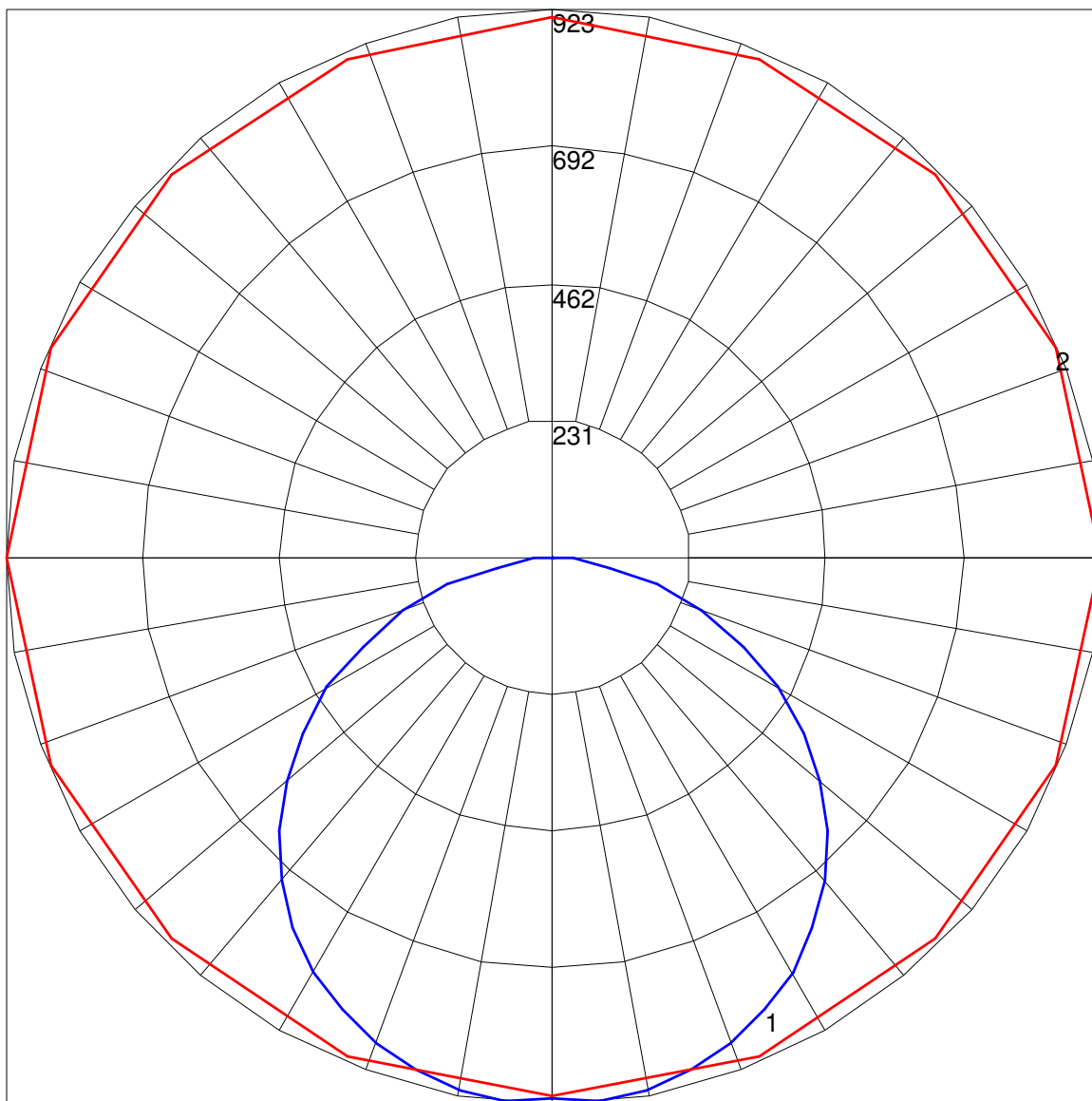
4H	2H	25.3	26.7	25.7	27.1	27.4	25.2	26.6	25.6	27.0	27.4
	3H	27.3	28.5	27.7	28.9	29.3	27.2	28.4	27.6	28.8	29.2
	4H	28.1	29.1	28.5	29.5	30.0	27.9	29.0	28.3	29.4	29.8
	6H	28.6	29.5	29.0	29.9	30.4	28.4	29.3	28.9	29.8	30.2
	8H	28.7	29.6	29.2	30.0	30.5	28.5	29.4	29.0	29.9	30.3
	12H	28.8	29.6	29.3	30.1	30.5	28.6	29.4	29.1	29.9	30.3

8H	4H	28.3	29.2	28.8	29.6	30.1	28.2	29.0	28.6	29.5	29.9
	6H	28.9	29.6	29.4	30.1	30.6	28.8	29.5	29.3	30.0	30.5
	8H	29.1	29.8	29.6	30.3	30.8	29.0	29.6	29.5	30.1	30.6
	12H	29.2	29.8	29.8	30.3	30.9	29.1	29.7	29.6	30.2	30.7

12H	4H	28.3	29.1	28.8	29.6	30.0	28.2	29.0	28.7	29.4	29.9
	6H	29.0	29.6	29.5	30.1	30.6	28.8	29.5	29.3	29.9	30.5
	8H	29.2	29.8	29.7	30.3	30.8	29.0	29.6	29.5	30.1	30.7

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 923.048 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.)