H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-4-L100-835-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] 14-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-4-L100/835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	68.3
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	46120	44115	43522
55	44959	42530	41665
65	41904	38605	37411
75	35331	31222	29942
85	18533	17640	14562

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3447.441	3447.441	3447.441	3447.441	3447.441
5	3472.631	3451.039	3436.645	3427.049	3423.450
10	3434.246	3412.654	3395.861	3386.265	3381.467
15	3376.669	3349.079	3332.286	3317.892	3322.690
20	3285.505	3262.714	3243.521	3229.127	3237.523
25	3170.350	3151.157	3123.568	3111.573	3106.775
30	3040.801	3013.212	2982.024	2972.428	2947.238
35	2875.266	2852.475	2816.489	2809.292	2782.903
40	2683.342	2635.361	2616.168	2602.974	2595.776
45	2459.030	2400.254	2388.258	2377.463	2369.066
50	2210.728	2156.750	2147.153	2142.355	2114.766
55	1945.633	1889.255	1880.858	1880.858	1856.868
60	1657.746	1607.366	1583.376	1594.171	1558.186
65	1337.473	1300.287	1272.698	1295.489	1247.508
70	1013.600	966.819	952.424	976.415	939.230
75	692.127	646.545	646.545	646.545	632.151
80	368.255	361.058	361.058	355.060	340.666
85	123.551	129.549	137.946	131.948	119.953
90	10.796	10.796	16.793	10.796	10.796
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	1269.59	N.A.	12.50
0-30	2713.47	N.A.	26.70
0-40	4479.46	N.A.	44.10
0-60	8011.85	N.A.	78.90
0-80	9978.7	N.A.	98.30
0-90	10150.4	N.A.	100.00
10-90	9823.32	N.A.	96.70
20-40	3209.87	N.A.	31.60
20-50	5057.93	N.A.	49.80
40-70	4806.4	N.A.	47.30
60-80	1966.84	N.A.	19.40
70-80	692.85	N.A.	6.80
80-90	171.70	N.A.	1.70
90-110	3.37	N.A.	0.00
90-120	3.37	N.A.	0.00
90-130	3.37	N.A.	0.00
90-150	3.37	N.A.	0.00
90-180	3.37	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10153.77	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.08
10-20	942.50
20-30	1443.89
30-40	1765.98
40-50	1848.06
50-60	1684.34
60-70	1274.00
70-80	692.85
80-90	171.70
90-100	3.37
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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	105	105	105	103
1	112	107	103	99	109	105	101	97	100	97	94	96	94	91	93	91	89	86
2	102	93	86	80	99	91	85	79	88	82	77	84	80	76	81	77	74	72
3	93	82	73	67	90	80	72	66	77	70	65	74	68	64	72	67	63	60
4	85	72	63	56	82	71	62	56	68	61	55	66	60	54	64	58	54	51
5	78	65	55	48	76	63	55	48	61	53	47	59	52	47	57	51	46	44
6	72	58	49	42	70	57	48	42	55	47	41	53	46	41	52	46	41	39
7	67	53	43	37	65	52	43	37	50	42	37	49	42	36	47	41	36	34
8	62	48	39	33	60	47	39	33	46	38	33	45	38	32	43	37	32	30
9	58	44	35	30	56	43	35	30	42	35	29	41	34	29	40	34	29	27
10	54	41	32	27	53	40	32	27	39	32	27	38	31	26	37	31	26	25

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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					UGR Viewed Endwise				
X=2H	Y=2H	25.2	26.8	25.5	27.1	27.4	25.1	26.8	25.5	27.1	27.4
	3H	26.9	28.4	27.3	28.7	29.1	26.9	28.4	27.2	28.7	29.0
	4H	27.5	28.9	27.9	29.3	29.7	27.5	28.9	27.9	29.2	29.6
	6H	27.9	29.2	28.3	29.6	30.0	27.8	29.1	28.2	29.5	29.9
	8H	28.0	29.3	28.5	29.7	30.1	27.9	29.2	28.4	29.6	30.0
	12H	28.1	29.3	28.5	29.7	30.1	28.0	29.2	28.4	29.6	30.0
4H	2H	25.8	27.2	26.2	27.5	27.9	25.7	27.1	26.1	27.5	27.9
	3H	27.7	28.9	28.1	29.3	29.7	27.7	28.9	28.1	29.3	29.7
	4H	28.4	29.5	28.9	29.9	30.4	28.4	29.5	28.8	29.9	30.3
	6H	28.9	29.9	29.4	30.3	30.8	28.9	29.8	29.4	30.3	30.7
	8H	29.1	29.9	29.5	30.4	30.9	29.0	29.9	29.5	30.4	30.8
	12H	29.1	29.9	29.6	30.4	30.9	29.1	29.9	29.6	30.4	30.8
8H	4H	28.7	29.6	29.2	30.0	30.5	28.7	29.5	29.1	30.0	30.4
	6H	29.3	30.0	29.8	30.5	31.0	29.3	30.0	29.8	30.5	31.0
	8H	29.5	30.1	30.0	30.6	31.1	29.5	30.1	30.0	30.6	31.1
	12H	29.6	30.2	30.1	30.7	31.2	29.6	30.2	30.1	30.7	31.2
12H	4H	28.7	29.5	29.2	30.0	30.5	28.7	29.5	29.2	29.9	30.4
	6H	29.4	30.0	29.9	30.5	31.0	29.3	30.0	29.8	30.4	31.0
	8H	29.6	30.1	30.1	30.6	31.2	29.5	30.1	30.0	30.6	31.2

Maximum UGR = 31.2

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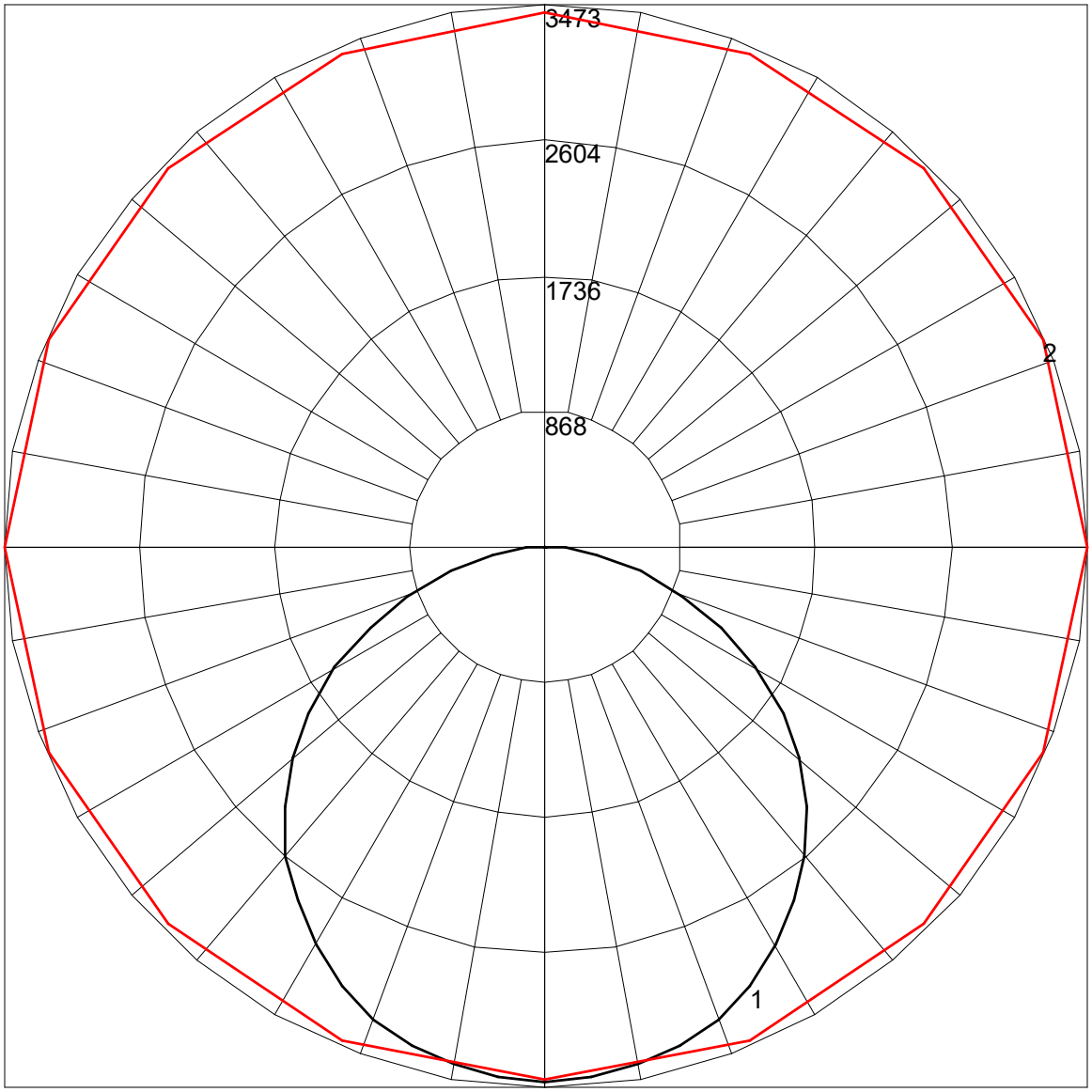
POLAR GRAPH



Maximum Candela = 3472.631 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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