H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L25-835-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] 2' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-2-L25-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	18.2
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	26409	25274	24965
55	25726	24354	23899
65	23949	22089	21459
75	20138	17833	17175
85	10430	10002	8353

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	883.431	883.431	883.431	883.431	883.431
5	889.886	884.353	880.665	878.205	877.283
10	880.050	874.517	870.213	867.754	866.525
15	865.295	858.225	853.922	850.233	851.463
20	841.934	836.093	831.175	827.487	829.638
25	812.425	807.506	800.437	797.363	796.133
30	779.227	772.157	764.165	761.706	755.251
35	736.807	730.967	721.745	719.901	713.139
40	687.625	675.330	670.412	667.030	665.186
45	630.144	615.082	612.008	609.242	607.090
50	566.515	552.682	550.223	548.994	541.924
55	498.582	484.135	481.983	481.983	475.836
60	424.809	411.899	405.751	408.518	399.296
65	342.737	333.208	326.138	331.978	319.683
70	259.742	247.754	244.066	250.213	240.684
75	177.362	165.682	165.682	165.682	161.993
80	94.368	92.524	92.524	90.987	87.298
85	31.661	33.198	35.350	33.813	30.739
90	2.766	2.766	4.303	2.766	2.766
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	325.34	N.A.	12.50
0-30	695.35	N.A.	26.70
0-40	1147.89	N.A.	44.10
0-60	2053.09	N.A.	78.90
0-80	2557.11	N.A.	98.30
0-90	2601.11	N.A.	100.00
10-90	2517.29	N.A.	96.70
20-40	822.55	N.A.	31.60
20-50	1296.13	N.A.	49.80
40-70	1231.67	N.A.	47.30
60-80	504.02	N.A.	19.40
70-80	177.55	N.A.	6.80
80-90	44.00	N.A.	1.70
90-110	0.86	N.A.	0.00
90-120	0.86	N.A.	0.00
90-130	0.86	N.A.	0.00
90-150	0.86	N.A.	0.00
90-180	0.86	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2601.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.82
10-20	241.52
20-30	370.01
30-40	452.55
40-50	473.58
50-60	431.62
60-70	326.47
70-80	177.55
80-90	44.00
90-100	0.86
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	127	127	127	127	124	124	124	124	119	119	119	114	114	114	109	109	109	107
1	116	111	106	102	113	109	104	101	104	101	97	100	97	94	96	94	92	89
2	106	97	89	83	103	95	88	82	91	85	80	87	83	78	84	80	77	74
3	96	85	76	69	93	83	75	68	80	73	67	77	71	66	74	69	65	62
4	88	75	65	58	85	73	65	58	71	63	57	68	62	56	66	60	55	53
5	81	67	57	50	78	66	57	50	63	55	49	61	54	49	59	53	48	46
6	74	60	50	44	72	59	50	43	57	49	43	55	48	43	54	47	42	40
7	69	54	45	38	67	54	45	38	52	44	38	50	43	38	49	42	37	35
8	64	50	40	34	62	49	40	34	47	39	34	46	39	34	45	38	33	31
9	60	45	37	31	58	45	36	31	44	36	30	42	35	30	41	35	30	28
10	56	42	33	28	55	41	33	28	40	33	28	39	32	27	38	32	27	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	23.2	24.8	23.5	25.1	25.4	23.1	24.8	23.5	25.1	25.4
	3H	24.9	26.4	25.3	26.7	27.1	24.9	26.3	25.2	26.7	27.0
	4H	25.5	26.9	25.9	27.3	27.7	25.4	26.9	25.8	27.2	27.6
	6H	25.9	27.2	26.3	27.6	28.0	25.8	27.1	26.2	27.5	27.9
	8H	26.0	27.3	26.5	27.7	28.1	25.9	27.2	26.4	27.6	28.0
	12H	26.1	27.3	26.5	27.6	28.1	26.0	27.2	26.4	27.6	28.0
4H	2H	23.8	25.2	24.1	25.5	25.9	23.7	25.1	24.1	25.5	25.8
	3H	25.7	26.9	26.1	27.3	27.7	25.7	26.9	26.1	27.3	27.7
	4H	26.4	27.5	26.9	27.9	28.4	26.4	27.5	26.8	27.9	28.3
	6H	26.9	27.9	27.4	28.3	28.8	26.9	27.8	27.3	28.3	28.7
	8H	27.1	27.9	27.5	28.4	28.8	27.0	27.9	27.5	28.3	28.8
	12H	27.1	27.9	27.6	28.4	28.9	27.1	27.9	27.6	28.4	28.8
8H	4H	26.7	27.6	27.2	28.0	28.5	26.7	27.5	27.1	28.0	28.4
	6H	27.3	28.0	27.8	28.5	29.0	27.2	28.0	27.7	28.5	28.9
	8H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1
	12H	27.6	28.2	28.1	28.7	29.2	27.6	28.1	28.1	28.6	29.2
12H	4H	26.7	27.5	27.2	28.0	28.4	26.7	27.5	27.2	27.9	28.4
	6H	27.4	28.0	27.9	28.5	29.0	27.3	28.0	27.8	28.4	28.9
	8H	27.6	28.1	28.1	28.6	29.2	27.5	28.1	28.0	28.6	29.1

Maximum UGR = 29.2

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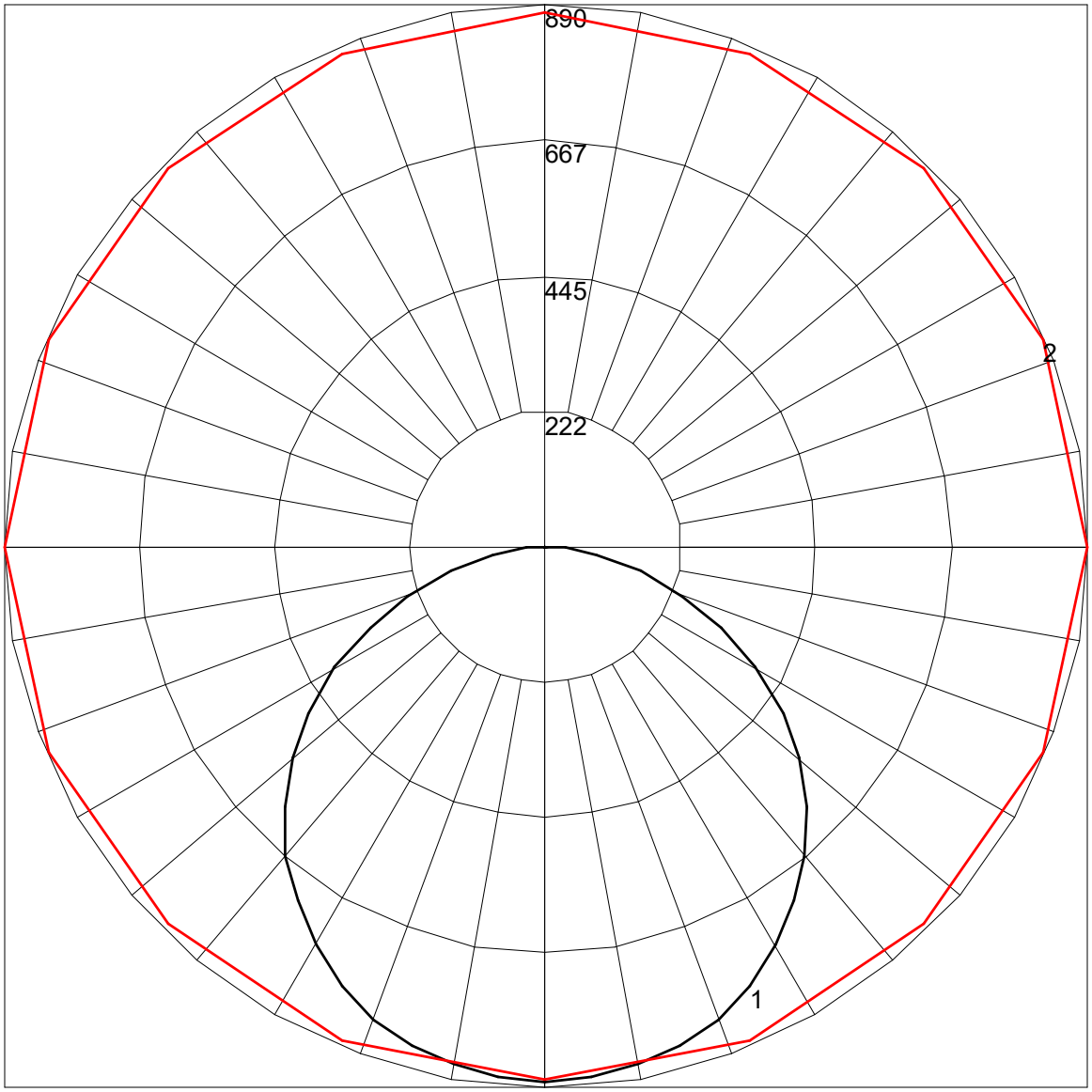
POLAR GRAPH



Maximum Candela = 889.886 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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