H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L15-835-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] 25-OCT-2019
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-2-L15-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	10.8
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	16158	15464	15274
55	15740	14901	14622
65	14652	13515	13129
75	12321	10911	10508
85	6381	6120	5111

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	540.509	540.509	540.509	540.509	540.509
5	544.458	541.073	538.816	537.312	536.747
10	538.440	535.055	532.422	530.917	530.165
15	529.413	525.087	522.454	520.197	520.950
20	515.120	511.546	508.537	506.280	507.597
25	497.065	494.056	489.730	487.850	487.097
30	476.754	472.428	467.538	466.034	462.084
35	450.800	447.227	441.585	440.456	436.319
40	420.709	413.186	410.177	408.109	406.980
45	385.540	376.325	374.444	372.752	371.435
50	346.610	338.147	336.643	335.890	331.565
55	305.047	296.208	294.891	294.891	291.130
60	259.911	252.012	248.250	249.943	244.301
65	209.696	203.866	199.541	203.114	195.591
70	158.918	151.583	149.326	153.088	147.258
75	108.516	101.369	101.369	101.369	99.112
80	57.737	56.609	56.609	55.668	53.411
85	19.371	20.311	21.628	20.688	18.807
90	1.693	1.693	2.633	1.693	1.693
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	199.05	N.A.	12.50
0-30	425.43	N.A.	26.70
0-40	702.31	N.A.	44.10
0-60	1256.14	N.A.	78.90
0-80	1564.52	N.A.	98.30
0-90	1591.44	N.A.	100.00
10-90	1540.15	N.A.	96.70
20-40	503.26	N.A.	31.60
20-50	793.01	N.A.	49.80
40-70	753.57	N.A.	47.30
60-80	308.37	N.A.	19.40
70-80	108.63	N.A.	6.80
80-90	26.92	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	1591.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.28
10-20	147.77
20-30	226.38
30-40	276.88
40-50	289.75
50-60	264.08
60-70	199.74
70-80	108.63
80-90	26.92
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	21.7	23.3	22.0	23.6	23.9	21.6	23.3	22.0	23.6	23.9
	3H	23.4	24.9	23.8	25.2	25.6	23.4	24.8	23.7	25.2	25.5
	4H	24.0	25.4	24.4	25.8	26.2	23.9	25.4	24.3	25.7	26.1
	6H	24.4	25.7	24.8	26.1	26.5	24.3	25.6	24.7	26.0	26.4
	8H	24.5	25.8	25.0	26.2	26.6	24.4	25.7	24.9	26.1	26.5
	12H	24.6	25.8	25.0	26.1	26.6	24.5	25.7	24.9	26.1	26.5
4H	2H	22.3	23.7	22.6	24.0	24.4	22.2	23.6	22.6	24.0	24.3
	3H	24.2	25.4	24.6	25.8	26.2	24.2	25.4	24.6	25.8	26.2
	4H	24.9	26.0	25.4	26.4	26.9	24.9	26.0	25.3	26.4	26.8
	6H	25.4	26.4	25.9	26.8	27.3	25.4	26.3	25.8	26.8	27.2
	8H	25.6	26.4	26.0	26.9	27.3	25.5	26.4	26.0	26.8	27.3
	12H	25.6	26.4	26.1	26.9	27.4	25.6	26.4	26.1	26.9	27.3
8H	4H	25.2	26.1	25.7	26.5	27.0	25.2	26.0	25.6	26.5	26.9
	6H	25.8	26.5	26.3	27.0	27.5	25.7	26.5	26.2	27.0	27.4
	8H	26.0	26.6	26.5	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	12H	26.1	26.7	26.6	27.2	27.7	26.1	26.6	26.6	27.1	27.7
12H	4H	25.2	26.0	25.7	26.5	26.9	25.2	26.0	25.7	26.4	26.9
	6H	25.9	26.5	26.4	27.0	27.5	25.8	26.5	26.3	26.9	27.4
	8H	26.1	26.6	26.6	27.1	27.7	26.0	26.6	26.5	27.1	27.6

Maximum UGR = 27.7

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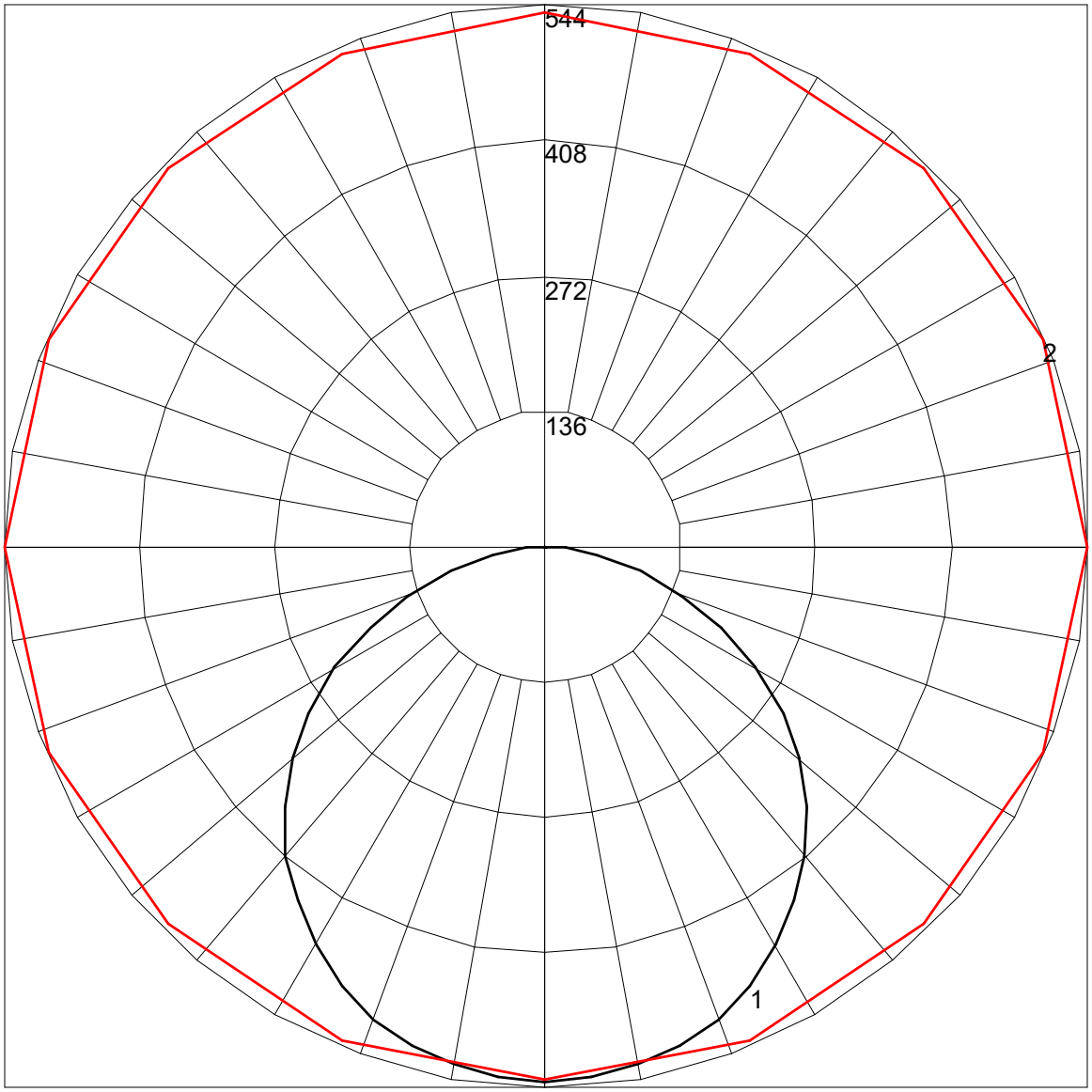
POLAR GRAPH



Maximum Candela = 544.458 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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