H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-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] 18-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-8-L100-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	65.9
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)	7.62 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	21746	20796	20506
55	21205	20053	19631
65	19775	18209	17627
75	16692	14737	14108
85	8804	8352	6861

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3421.638	3421.638	3421.638	3421.638	3421.638
5	3446.639	3425.210	3410.923	3401.399	3397.827
10	3408.542	3387.112	3370.444	3360.920	3356.158
15	3351.395	3324.013	3307.345	3293.059	3297.821
20	3260.914	3238.293	3219.245	3204.958	3213.292
25	3146.621	3127.572	3100.190	3088.284	3083.522
30	3018.042	2990.659	2959.705	2950.180	2925.179
35	2853.746	2831.126	2795.409	2788.266	2762.074
40	2663.258	2615.636	2596.587	2583.491	2576.348
45	2440.625	2382.289	2370.383	2359.668	2351.334
50	2194.182	2140.607	2131.083	2126.321	2098.938
55	1931.071	1875.115	1866.781	1866.781	1842.970
60	1645.339	1595.336	1571.525	1582.240	1546.523
65	1327.462	1290.555	1263.173	1285.793	1238.171
70	1006.014	959.583	945.296	969.107	932.200
75	686.947	641.706	641.706	641.706	627.419
80	365.499	358.355	358.355	352.403	338.116
85	122.627	128.579	136.913	130.960	119.055
90	10.715	10.715	16.668	10.715	10.715
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	1260.08	N.A.	12.50
0-30	2693.16	N.A.	26.70
0-40	4445.93	N.A.	44.10
0-60	7951.89	N.A.	78.90
0-80	9904.01	N.A.	98.30
0-90	10074.43	N.A.	100.00
10-90	9749.79	N.A.	96.70
20-40	3185.84	N.A.	31.60
20-50	5020.07	N.A.	49.80
40-70	4770.42	N.A.	47.30
60-80	1952.12	N.A.	19.40
70-80	687.66	N.A.	6.80
80-90	170.42	N.A.	1.70
90-110	3.34	N.A.	0.00
90-120	3.34	N.A.	0.00
90-130	3.34	N.A.	0.00
90-150	3.34	N.A.	0.00
90-180	3.34	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10077.77	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	324.63
10-20	935.45
20-30	1433.08
30-40	1752.76
40-50	1834.23
50-60	1671.73
60-70	1264.46
70-80	687.66
80-90	170.42
90-100	3.34
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	110	105	101	97	101	97	94	97	94	91	93	91	89	87
2	102	94	86	80	99	92	85	80	88	82	78	84	80	76	81	78	74	72
3	93	82	73	67	90	80	72	66	77	70	65	74	69	64	72	67	63	60
4	85	73	63	56	83	71	63	56	69	61	55	66	60	54	64	58	54	51
5	78	65	55	48	76	64	55	48	61	54	48	59	52	47	57	51	47	44
6	72	58	49	42	70	57	48	42	55	47	42	54	47	41	52	46	41	39
7	67	53	44	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	33	43	37	32	30
9	58	44	35	30	57	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	27	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	22.6	24.2	22.9	24.5	24.8	22.5	24.2	22.9	24.5	24.8
	3H	24.3	25.8	24.7	26.2	26.5	24.3	25.8	24.7	26.1	26.5
	4H	24.9	26.4	25.3	26.7	27.1	24.9	26.3	25.3	26.6	27.0
	6H	25.3	26.6	25.7	27.0	27.4	25.3	26.6	25.7	26.9	27.3
	8H	25.4	26.7	25.9	27.1	27.5	25.4	26.6	25.8	27.0	27.4
	12H	25.5	26.7	25.9	27.1	27.5	25.4	26.6	25.9	27.0	27.4
4H	2H	23.2	24.6	23.6	24.9	25.3	23.1	24.6	23.5	24.9	25.3
	3H	25.1	26.3	25.6	26.7	27.1	25.1	26.3	25.5	26.7	27.1
	4H	25.9	26.9	26.3	27.3	27.8	25.8	26.9	26.3	27.3	27.7
	6H	26.4	27.3	26.8	27.7	28.2	26.3	27.2	26.8	27.7	28.1
	8H	26.5	27.4	26.9	27.8	28.3	26.5	27.3	26.9	27.8	28.2
	12H	26.6	27.3	27.0	27.8	28.3	26.5	27.3	27.0	27.8	28.3
8H	4H	26.1	27.0	26.6	27.4	27.9	26.1	27.0	26.5	27.4	27.9
	6H	26.7	27.4	27.2	27.9	28.4	26.7	27.4	27.2	27.9	28.4
	8H	26.9	27.6	27.4	28.1	28.5	26.9	27.5	27.4	28.0	28.5
	12H	27.0	27.6	27.5	28.1	28.6	27.0	27.6	27.5	28.1	28.6
12H	4H	26.1	26.9	26.6	27.4	27.9	26.1	26.9	26.6	27.4	27.8
	6H	26.8	27.4	27.3	27.9	28.4	26.7	27.4	27.3	27.8	28.4
	8H	27.0	27.6	27.5	28.0	28.6	27.0	27.5	27.5	28.0	28.6

Maximum UGR = 28.6

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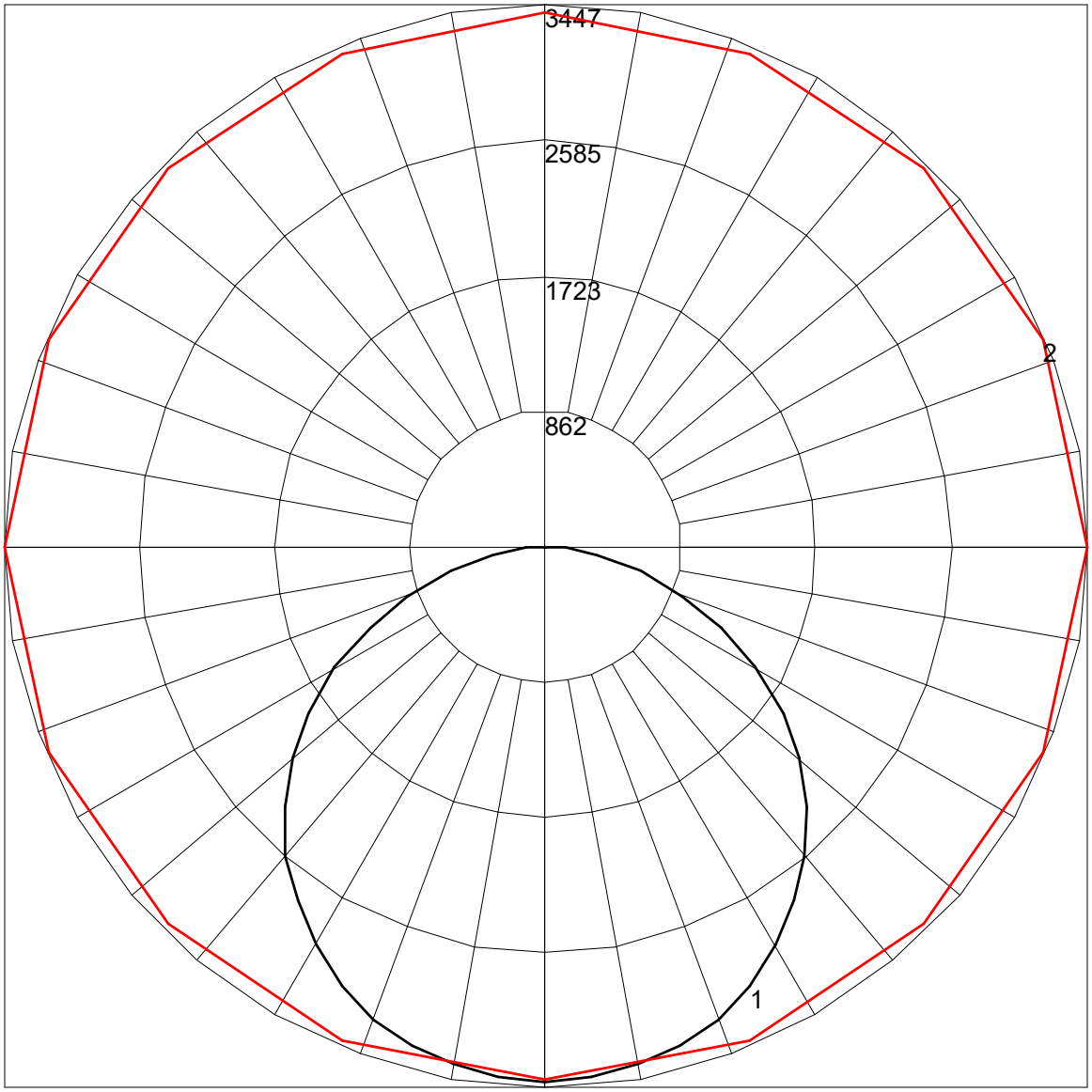
POLAR GRAPH



Maximum Candela = 3446.639 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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