H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L240-835-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] 17-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-8-L240-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	171.7
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	52237	49955	49259
55	50939	48171	47157
65	47502	43741	42342
75	40097	35401	33889
85	21149	20064	16482

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	8219.335	8219.335	8219.335	8219.335	8219.335
5	8279.393	8227.915	8193.596	8170.717	8162.138
10	8187.877	8136.399	8096.360	8073.481	8062.041
15	8050.602	7984.824	7944.786	7910.467	7921.906
20	7833.250	7778.912	7733.153	7698.835	7718.854
25	7558.700	7512.942	7447.164	7418.565	7407.126
30	7249.831	7184.054	7109.697	7086.817	7026.760
35	6855.166	6800.828	6715.031	6697.872	6634.954
40	6397.583	6283.187	6237.429	6205.970	6188.811
45	5862.783	5722.648	5694.049	5668.310	5648.291
50	5270.785	5142.089	5119.210	5107.771	5041.993
55	4638.748	4504.333	4484.314	4484.314	4427.116
60	3952.374	3832.258	3775.060	3800.799	3715.002
65	3188.782	3100.125	3034.348	3088.686	2974.290
70	2416.610	2305.075	2270.756	2327.954	2239.297
75	1650.159	1541.483	1541.483	1541.483	1507.164
80	877.987	860.828	860.828	846.529	812.210
85	294.569	308.869	328.888	314.588	285.989
90	25.739	25.739	40.039	25.739	25.739
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	3026.93	N.A.	12.50
0-30	6469.42	N.A.	26.70
0-40	10679.85	N.A.	44.10
0-60	19101.74	N.A.	78.90
0-80	23791.06	N.A.	98.30
0-90	24200.43	N.A.	100.00
10-90	23420.6	N.A.	96.70
20-40	7652.92	N.A.	31.60
20-50	12059.04	N.A.	49.80
40-70	11459.34	N.A.	47.30
60-80	4689.32	N.A.	19.40
70-80	1651.88	N.A.	6.80
80-90	409.37	N.A.	1.70
90-110	8.03	N.A.	0.00
90-120	8.03	N.A.	0.00
90-130	8.03	N.A.	0.00
90-150	8.03	N.A.	0.00
90-180	8.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	24208.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	779.82
10-20	2247.1
20-30	3442.5
30-40	4210.43
40-50	4406.12
50-60	4015.78
60-70	3037.44
70-80	1651.88
80-90	409.37
90-100	8.03
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	124	124	124	124	121	121	121	121	115	115	115	110	110	110	106	106	106	104
1	113	108	103	99	110	106	101	98	101	98	95	97	94	92	93	91	89	87
2	103	94	87	81	100	92	85	80	88	83	78	85	80	76	82	78	74	72
3	93	82	74	67	91	81	73	66	78	71	65	75	69	64	72	67	63	61
4	85	73	64	57	83	71	63	56	69	61	55	66	60	55	64	59	54	52
5	78	65	56	49	76	64	55	48	62	54	48	59	53	47	58	52	47	44
6	72	58	49	42	70	57	49	42	56	48	42	54	47	41	52	46	41	39
7	67	53	44	37	65	52	43	37	50	43	37	49	42	37	47	41	36	34
8	62	48	39	33	61	47	39	33	46	38	33	45	38	33	44	37	32	30
9	58	44	36	30	57	44	35	30	42	35	30	41	34	29	40	34	29	27
10	55	41	32	27	53	40	32	27	39	32	27	38	31	27	37	31	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	25.6	27.2	25.9	27.5	27.8	25.5	27.2	25.9	27.5	27.8
	3H	27.3	28.8	27.7	29.2	29.5	27.3	28.8	27.7	29.1	29.5
	4H	27.9	29.4	28.3	29.7	30.1	27.9	29.3	28.3	29.6	30.0
	6H	28.3	29.6	28.7	30.0	30.4	28.3	29.6	28.7	29.9	30.3
	8H	28.4	29.7	28.9	30.1	30.5	28.4	29.6	28.8	30.0	30.4
	12H	28.5	29.7	28.9	30.1	30.5	28.4	29.6	28.9	30.0	30.4
4H	2H	26.2	27.6	26.6	27.9	28.3	26.1	27.6	26.5	27.9	28.3
	3H	28.1	29.3	28.6	29.7	30.1	28.1	29.3	28.5	29.7	30.1
	4H	28.9	29.9	29.3	30.3	30.8	28.8	29.9	29.3	30.3	30.7
	6H	29.4	30.3	29.8	30.7	31.2	29.3	30.2	29.8	30.7	31.1
	8H	29.5	30.4	29.9	30.8	31.3	29.5	30.3	29.9	30.8	31.2
	12H	29.6	30.3	30.0	30.8	31.3	29.5	30.3	30.0	30.8	31.3
8H	4H	29.1	30.0	29.6	30.4	30.9	29.1	30.0	29.5	30.4	30.9
	6H	29.7	30.4	30.2	30.9	31.4	29.7	30.4	30.2	30.9	31.4
	8H	29.9	30.6	30.4	31.1	31.5	29.9	30.5	30.4	31.0	31.5
	12H	30.0	30.6	30.5	31.1	31.6	30.0	30.6	30.5	31.1	31.6
12H	4H	29.1	29.9	29.6	30.4	30.9	29.1	29.9	29.6	30.4	30.8
	6H	29.8	30.4	30.3	30.9	31.4	29.7	30.4	30.3	30.8	31.4
	8H	30.0	30.6	30.5	31.0	31.6	30.0	30.5	30.5	31.0	31.6

Maximum UGR = 31.6

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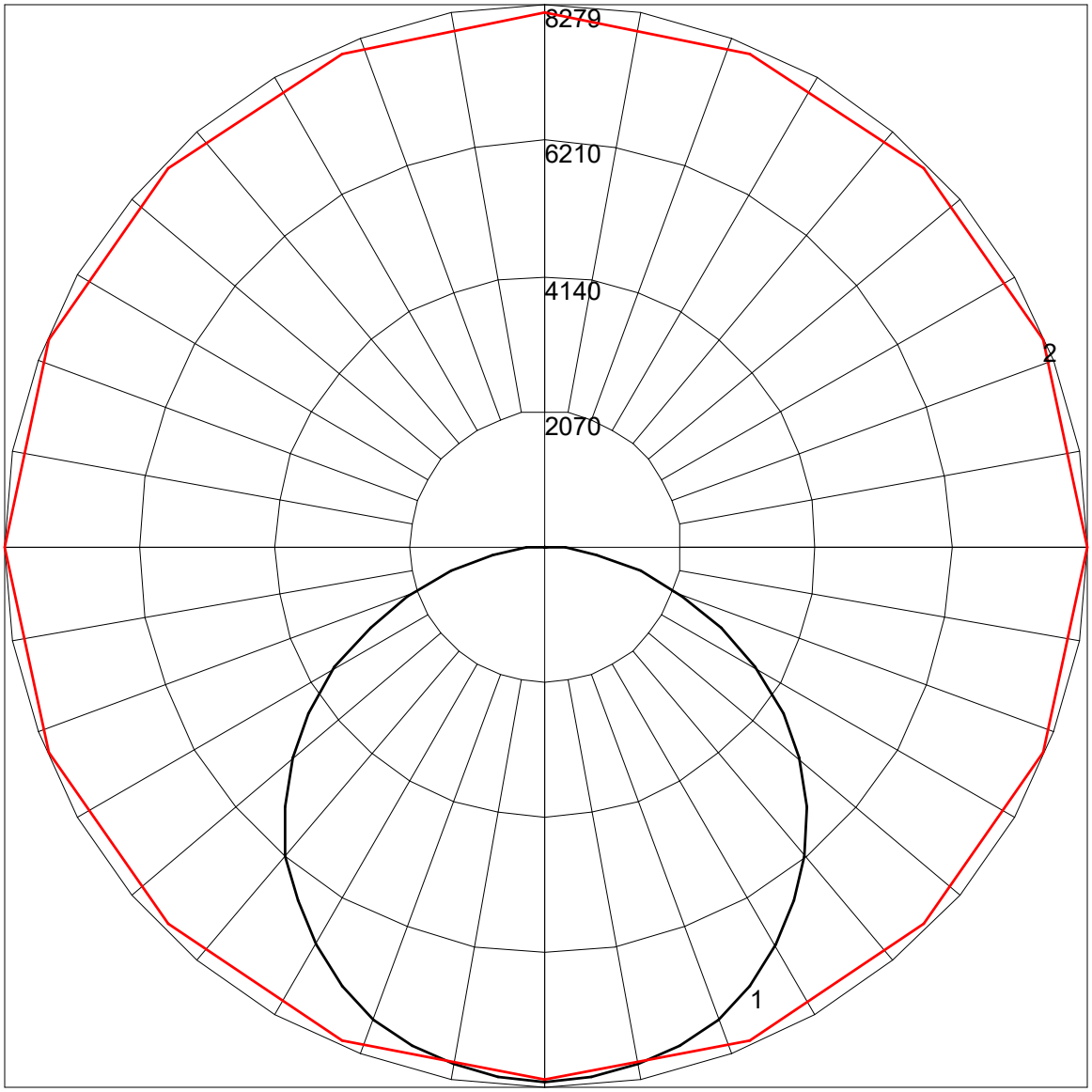
POLAR GRAPH



Maximum Candela = 8279.393 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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