H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-8-L200-835-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-L200-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	136.5
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	43822	41908	41324
55	42733	40411	39560
65	39849	36694	35521
75	33637	29698	28430
85	17742	16832	13827

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	6895.223	6895.223	6895.223	6895.223	6895.223
5	6945.606	6902.421	6873.631	6854.437	6847.240
10	6868.832	6825.647	6792.059	6772.865	6763.269
15	6753.672	6698.491	6664.903	6636.113	6645.709
20	6571.335	6525.751	6487.364	6458.574	6475.368
25	6341.014	6302.628	6247.447	6223.455	6213.858
30	6081.904	6026.723	5964.344	5945.151	5894.768
35	5750.818	5705.233	5633.258	5618.863	5566.081
40	5366.950	5270.983	5232.596	5206.205	5191.810
45	4918.305	4800.745	4776.753	4755.161	4738.367
50	4421.676	4313.713	4294.520	4284.923	4229.742
55	3891.459	3778.698	3761.903	3761.903	3713.920
60	3315.657	3214.892	3166.908	3188.501	3116.526
65	2675.078	2600.704	2545.523	2591.107	2495.140
70	2027.301	1933.733	1904.943	1952.927	1878.552
75	1384.323	1293.154	1293.154	1293.154	1264.364
80	736.546	722.151	722.151	710.155	681.365
85	247.115	259.111	275.905	263.909	239.917
90	21.593	21.593	33.588	21.593	21.593
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	2539.3	N.A.	12.50
0-30	5427.22	N.A.	26.70
0-40	8959.36	N.A.	44.10
0-60	16024.51	N.A.	78.90
0-80	19958.39	N.A.	98.30
0-90	20301.81	N.A.	100.00
10-90	19647.61	N.A.	96.70
20-40	6420.06	N.A.	31.60
20-50	10116.36	N.A.	49.80
40-70	9613.27	N.A.	47.30
60-80	3933.88	N.A.	19.40
70-80	1385.76	N.A.	6.80
80-90	343.42	N.A.	1.70
90-110	6.73	N.A.	0.00
90-120	6.73	N.A.	0.00
90-130	6.73	N.A.	0.00
90-150	6.73	N.A.	0.00
90-180	6.73	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20308.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	654.20
10-20	1885.1
20-30	2887.92
30-40	3532.14
40-50	3696.3
50-60	3368.85
60-70	2548.12
70-80	1385.76
80-90	343.42
90-100	6.73
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	101	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	25.1	26.7	25.4	27.0	27.3	25.0	26.7	25.4	27.0	27.3
	3H	26.8	28.3	27.2	28.7	29.0	26.8	28.3	27.2	28.6	29.0
	4H	27.4	28.9	27.8	29.2	29.6	27.4	28.8	27.8	29.1	29.5
	6H	27.8	29.1	28.2	29.5	29.9	27.8	29.1	28.2	29.4	29.8
	8H	27.9	29.2	28.4	29.6	30.0	27.9	29.1	28.3	29.5	29.9
	12H	28.0	29.2	28.4	29.6	30.0	27.9	29.1	28.4	29.5	29.9
4H	2H	25.7	27.1	26.1	27.4	27.8	25.6	27.1	26.0	27.4	27.8
	3H	27.6	28.8	28.1	29.2	29.6	27.6	28.8	28.0	29.2	29.6
	4H	28.4	29.4	28.8	29.8	30.3	28.3	29.4	28.8	29.8	30.2
	6H	28.9	29.8	29.3	30.2	30.7	28.8	29.7	29.3	30.2	30.6
	8H	29.0	29.9	29.4	30.3	30.8	29.0	29.8	29.4	30.3	30.7
	12H	29.1	29.8	29.5	30.3	30.8	29.0	29.8	29.5	30.3	30.8
8H	4H	28.6	29.5	29.1	29.9	30.4	28.6	29.5	29.0	29.9	30.4
	6H	29.2	29.9	29.7	30.4	30.9	29.2	29.9	29.7	30.4	30.9
	8H	29.4	30.1	29.9	30.6	31.0	29.4	30.0	29.9	30.5	31.0
	12H	29.5	30.1	30.0	30.6	31.1	29.5	30.1	30.0	30.6	31.1
12H	4H	28.6	29.4	29.1	29.9	30.4	28.6	29.4	29.1	29.9	30.3
	6H	29.3	29.9	29.8	30.4	30.9	29.2	29.9	29.8	30.3	30.9
	8H	29.5	30.1	30.0	30.5	31.1	29.5	30.0	30.0	30.5	31.1

Maximum UGR = 31.1

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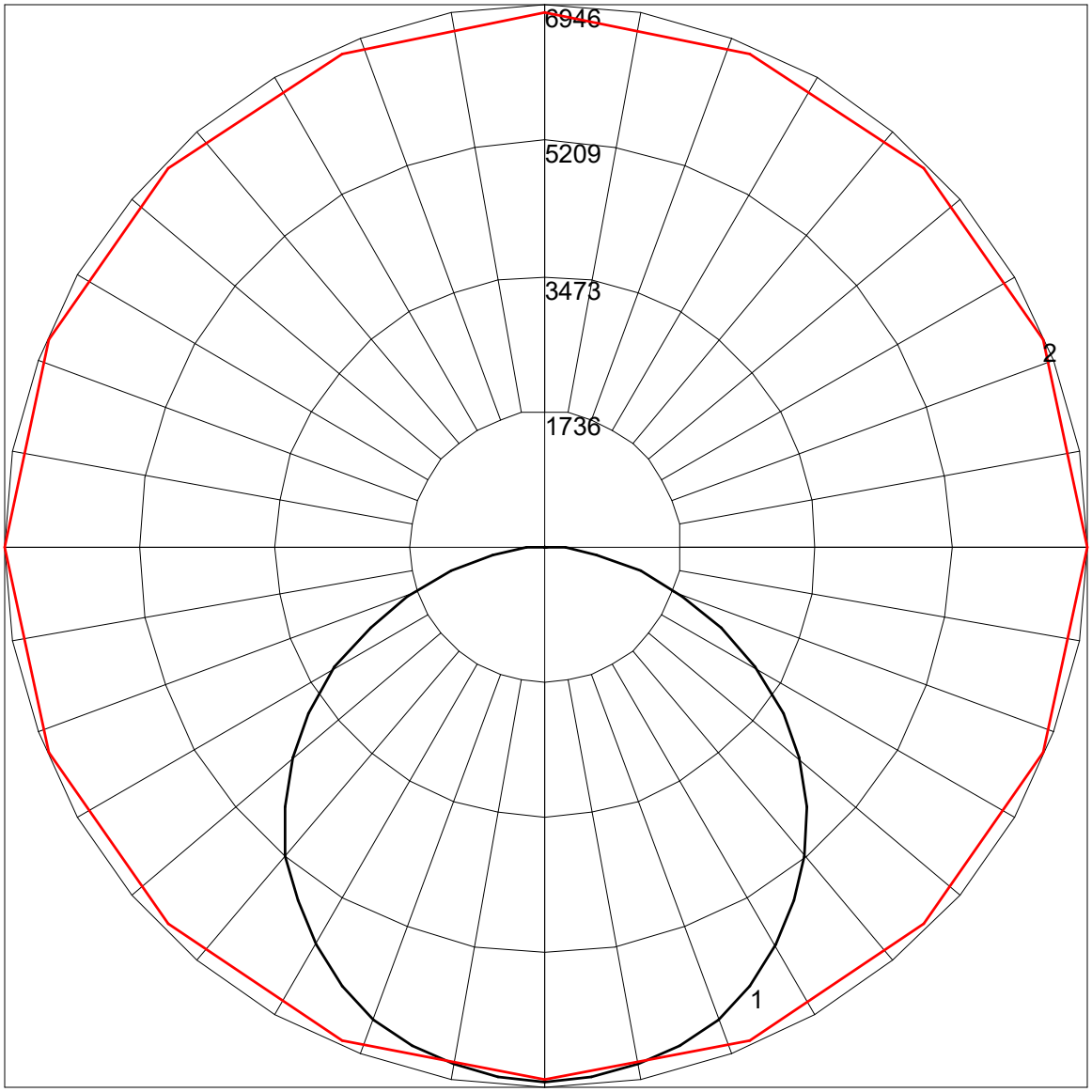
POLAR GRAPH



Maximum Candela = 6945.606 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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