



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L106-8TW-DIM-UNV 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 17-DEC-2019

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L106-8TW-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	86.47
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	23435	22411	22099
55	22852	21610	21155
65	21310	19623	18995
75	17988	15882	15203
85	9488	9001	7394

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3687.342	3687.342	3687.342	3687.342	3687.342
5	3714.285	3691.191	3675.795	3665.531	3661.682
10	3673.229	3650.135	3632.173	3621.909	3616.777
15	3611.645	3582.136	3564.174	3548.778	3553.910
20	3514.137	3489.760	3469.232	3453.836	3462.817
25	3390.969	3370.441	3340.932	3328.102	3322.970
30	3252.405	3222.896	3189.538	3179.274	3152.331
35	3075.351	3050.974	3012.484	3004.786	2976.560
40	2870.071	2818.751	2798.223	2784.110	2776.412
45	2630.150	2567.283	2554.453	2542.906	2533.925
50	2364.569	2306.834	2296.570	2291.438	2261.929
55	2081.026	2020.725	2011.744	2011.744	1986.084
60	1773.106	1719.220	1693.560	1705.107	1666.617
65	1430.545	1390.772	1361.263	1385.640	1334.320
70	1084.135	1034.098	1018.702	1044.362	1004.589
75	740.291	691.537	691.537	691.537	676.141
80	393.881	386.183	386.183	379.768	364.372
85	132.149	138.564	147.545	141.130	128.300
90	11.547	11.547	17.962	11.547	11.547
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	1357.93	N.A.	12.50
0-30	2902.3	N.A.	26.70
0-40	4791.17	N.A.	44.10
0-60	8569.39	N.A.	78.90
0-80	10673.1	N.A.	98.30
0-90	10856.75	N.A.	100.00
10-90	10506.9	N.A.	96.70
20-40	3433.24	N.A.	31.60
20-50	5409.9	N.A.	49.80
40-70	5140.86	N.A.	47.30
60-80	2103.71	N.A.	19.40
70-80	741.06	N.A.	6.80
80-90	183.65	N.A.	1.70
90-110	3.60	N.A.	0.00
90-120	3.60	N.A.	0.00
90-130	3.60	N.A.	0.00
90-150	3.60	N.A.	0.00
90-180	3.60	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10860.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	349.84
10-20	1008.09
20-30	1544.37
30-40	1888.87
40-50	1976.66
50-60	1801.55
60-70	1362.65
70-80	741.06
80-90	183.65
90-100	3.60
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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	101
1	110	105	101	97	107	103	99	95	99	95	92	95	92	90	91	89	87	85
2	100	92	85	79	97	90	83	78	86	81	76	83	78	74	80	76	73	70
3	91	80	72	65	89	79	71	65	76	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	58	53	63	57	53	50
5	77	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	71	57	48	41	69	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	36	64	51	42	36	49	42	36	48	41	36	46	40	35	33
8	61	47	38	32	59	46	38	32	45	37	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	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

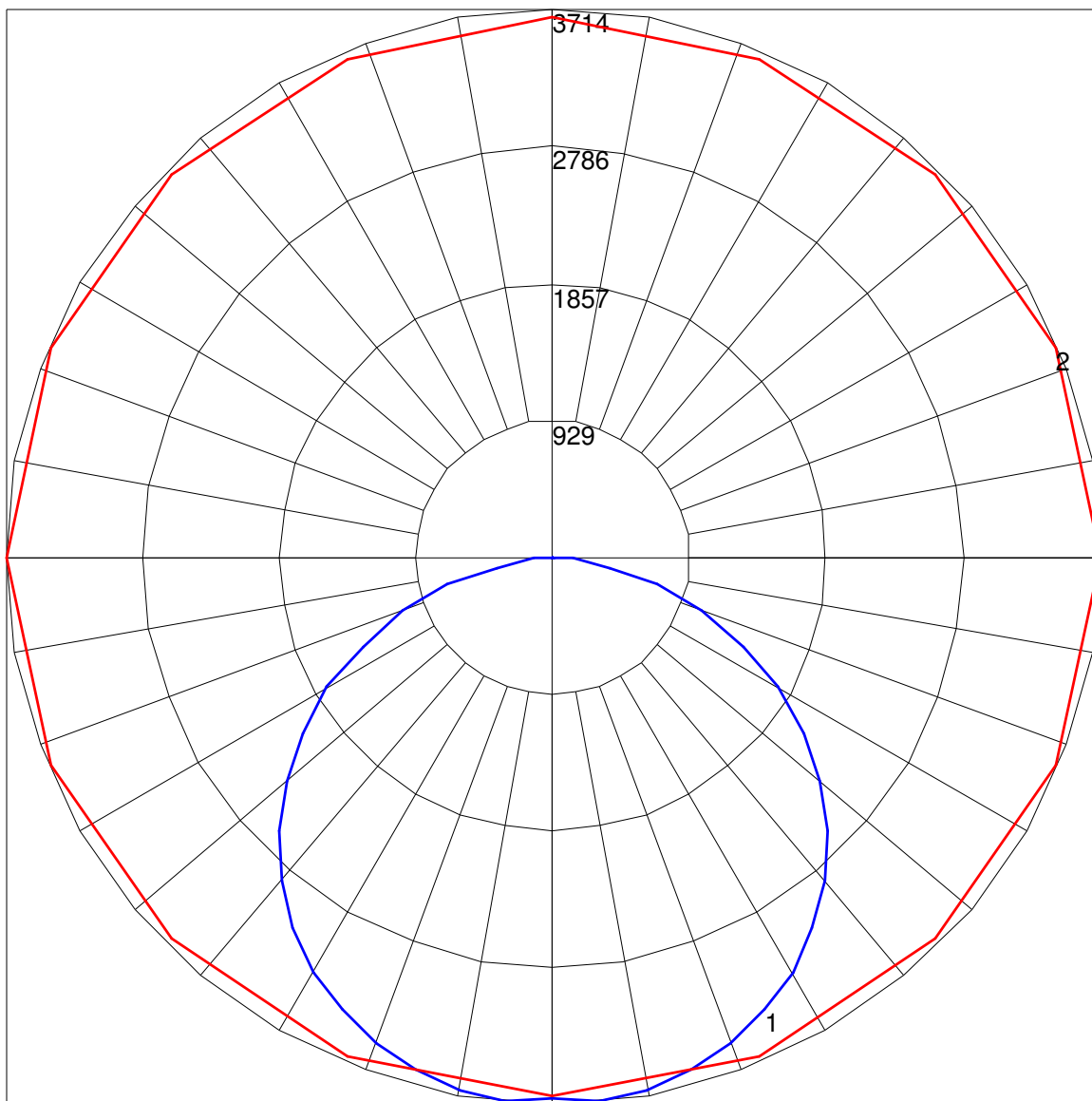
X=2H	Y=2H	22.9	24.6	23.3	24.9	25.2	22.8	24.5	23.2	24.8	25.1
	3H	24.7	26.2	25.1	26.6	26.9	24.6	26.1	25.0	26.4	26.8
	4H	25.4	26.8	25.8	27.1	27.5	25.2	26.6	25.6	26.9	27.3
	6H	25.8	27.1	26.2	27.5	27.8	25.6	26.9	26.0	27.2	27.6
	8H	25.9	27.1	26.3	27.5	27.9	25.7	26.9	26.1	27.3	27.7
	12H	26.0	27.2	26.4	27.5	28.0	25.7	26.9	26.2	27.3	27.7

UGR Viewed Endwise

4H	2H	23.5	24.9	23.9	25.3	25.7	23.4	24.9	23.8	25.2	25.6
	3H	25.5	26.7	25.9	27.1	27.5	25.4	26.6	25.8	27.0	27.4
	4H	26.3	27.3	26.7	27.7	28.2	26.1	27.2	26.6	27.6	28.0
	6H	26.8	27.7	27.2	28.2	28.6	26.6	27.5	27.1	28.0	28.4
	8H	26.9	27.8	27.4	28.3	28.7	26.8	27.6	27.2	28.1	28.5
	12H	27.0	27.8	27.5	28.3	28.7	26.8	27.6	27.3	28.1	28.6
8H	4H	26.5	27.4	27.0	27.8	28.3	26.4	27.3	26.8	27.7	28.2
	6H	27.1	27.9	27.6	28.3	28.8	27.0	27.7	27.5	28.2	28.7
	8H	27.4	28.0	27.9	28.5	29.0	27.2	27.8	27.7	28.3	28.8
	12H	27.5	28.0	28.0	28.5	29.1	27.3	27.9	27.8	28.4	28.9
12H	4H	26.5	27.3	27.0	27.8	28.3	26.4	27.2	26.9	27.7	28.1
	6H	27.2	27.8	27.7	28.3	28.8	27.0	27.7	27.6	28.1	28.7
	8H	27.4	28.0	27.9	28.5	29.0	27.3	27.8	27.8	28.3	28.9

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 3714.285 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)