



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L150-8TW-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

[ISSUEDATE] 17-DEC-2019

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

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L150-8TW-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	115.9
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	32796	31363	30926
55	31980	30243	29606
65	29823	27461	26583
75	25174	22226	21276
85	13278	12597	10348

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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	5160.267	5160.267	5160.267	5160.267	5160.267
5	5197.973	5165.654	5144.108	5129.744	5124.357
10	5140.517	5108.198	5083.061	5068.697	5061.515
15	5054.333	5013.036	4987.899	4966.353	4973.535
20	4917.875	4883.760	4855.032	4833.486	4846.055
25	4745.507	4716.779	4675.482	4657.527	4650.345
30	4551.593	4510.296	4463.613	4449.249	4411.544
35	4303.814	4269.699	4215.834	4205.061	4165.560
40	4016.534	3944.714	3915.986	3896.235	3885.462
45	3680.775	3592.796	3574.841	3558.681	3546.113
50	3309.107	3228.309	3213.945	3206.763	3165.467
55	2912.301	2827.913	2815.344	2815.344	2779.434
60	2481.381	2405.970	2370.060	2386.220	2332.355
65	2001.983	1946.322	1905.026	1939.140	1867.320
70	1517.198	1447.173	1425.627	1461.537	1405.877
75	1036.004	967.775	967.775	967.775	946.229
80	551.219	540.446	540.446	531.468	509.922
85	184.937	193.914	206.483	197.505	179.550
90	16.160	16.160	25.137	16.160	16.160
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	1900.37	N.A.	12.50
0-30	4061.64	N.A.	26.70
0-40	6705.03	N.A.	44.10
0-60	11992.47	N.A.	78.90
0-80	14936.52	N.A.	98.30
0-90	15193.53	N.A.	100.00
10-90	14703.94	N.A.	96.70
20-40	4804.66	N.A.	31.60
20-50	7570.91	N.A.	49.80
40-70	7194.41	N.A.	47.30
60-80	2944.05	N.A.	19.40
70-80	1037.08	N.A.	6.80
80-90	257.01	N.A.	1.70
90-110	5.04	N.A.	0.00
90-120	5.04	N.A.	0.00
90-130	5.04	N.A.	0.00
90-150	5.04	N.A.	0.00
90-180	5.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	15198.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	489.59
10-20	1410.78
20-30	2161.27
30-40	2643.39
40-50	2766.25
50-60	2521.19
60-70	1906.97
70-80	1037.08
80-90	257.01
90-100	5.04
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	120	120	120	120	118	118	118	118	112	112	112	108	108	108	103	103	103	101
1	110	105	101	97	107	103	99	95	98	95	92	95	92	89	91	89	87	85
2	100	91	85	79	97	90	83	78	86	81	76	83	78	74	80	76	72	70
3	91	80	72	65	88	79	71	65	76	69	63	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	69	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	52	43	36	64	51	42	36	49	41	36	48	41	36	46	40	35	33
8	61	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	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	24.1	25.8	24.5	26.1	26.4	24.0	25.7	24.4	26.0	26.3
	3H	25.9	27.4	26.3	27.8	28.1	25.8	27.3	26.2	27.6	28.0
	4H	26.6	28.0	27.0	28.3	28.7	26.4	27.8	26.8	28.1	28.5
	6H	27.0	28.3	27.4	28.7	29.0	26.8	28.1	27.2	28.4	28.8
	8H	27.1	28.3	27.5	28.7	29.1	26.9	28.1	27.3	28.5	28.9
	12H	27.2	28.4	27.6	28.7	29.2	26.9	28.1	27.4	28.5	28.9

UGR Viewed Endwise

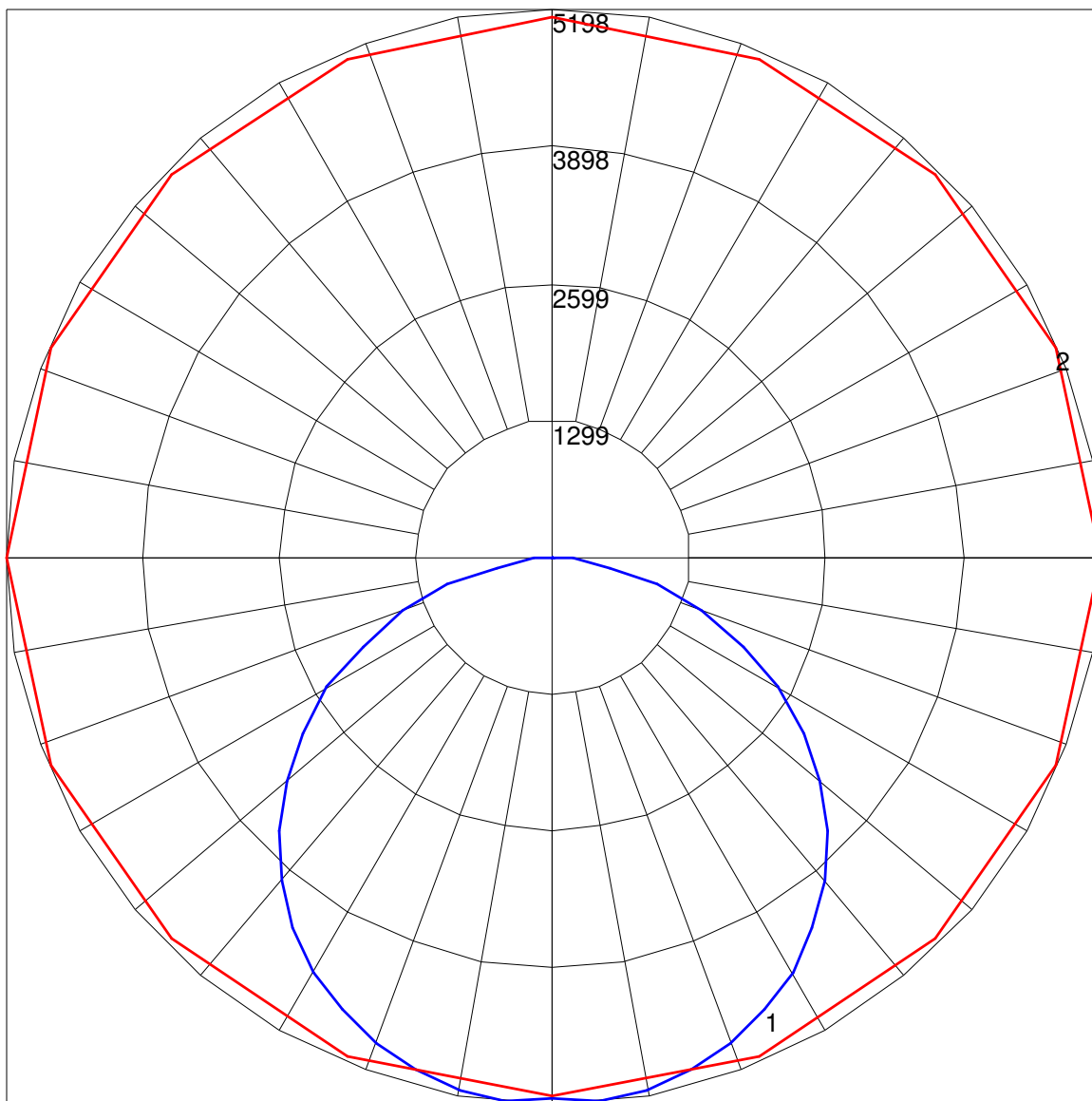
4H	2H	24.7	26.1	25.1	26.5	26.9	24.6	26.1	25.0	26.4	26.8
	3H	26.7	27.9	27.1	28.3	28.7	26.6	27.8	27.0	28.2	28.6
	4H	27.5	28.5	27.9	28.9	29.4	27.3	28.4	27.8	28.8	29.2
	6H	28.0	28.9	28.4	29.4	29.8	27.8	28.7	28.3	29.2	29.6
	8H	28.1	29.0	28.6	29.5	29.9	28.0	28.8	28.4	29.3	29.7
	12H	28.2	29.0	28.7	29.5	29.9	28.0	28.8	28.5	29.3	29.8

8H	4H	27.7	28.6	28.2	29.0	29.5	27.6	28.5	28.0	28.9	29.4
	6H	28.3	29.1	28.8	29.5	30.0	28.2	28.9	28.7	29.4	29.9
	8H	28.6	29.2	29.1	29.7	30.2	28.4	29.0	28.9	29.5	30.0
	12H	28.7	29.2	29.2	29.7	30.3	28.5	29.1	29.0	29.6	30.1

12H	4H	27.7	28.5	28.2	29.0	29.5	27.6	28.4	28.1	28.9	29.3
	6H	28.4	29.0	28.9	29.5	30.0	28.2	28.9	28.8	29.3	29.9
	8H	28.6	29.2	29.1	29.7	30.2	28.5	29.0	29.0	29.5	30.1

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 5197.973 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.)