



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L130-835-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  
 [ISSUE DATE] 11-NOV-2019  
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 8' STRIP w/WHITE REFLECTOR  
 [LUMCAT] 75-8-L130-835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	85.5
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	28200	26968	26592
55	27499	26005	25457
65	25643	23613	22858
75	21646	19111	18295
85	11417	10831	8898

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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>
<b>0</b>	4437.131	4437.131	4437.131	4437.131	4437.131
<b>5</b>	4469.553	4441.763	4423.236	4410.885	4406.254
<b>10</b>	4420.149	4392.359	4370.744	4358.393	4352.218
<b>15</b>	4346.042	4310.533	4288.918	4270.391	4276.567
<b>20</b>	4228.707	4199.373	4174.670	4156.144	4166.951
<b>25</b>	4080.493	4055.791	4020.282	4004.843	3998.667
<b>30</b>	3913.754	3878.244	3838.103	3825.752	3793.330
<b>35</b>	3700.697	3671.363	3625.047	3615.783	3581.818
<b>40</b>	3453.675	3391.920	3367.218	3350.235	3340.972
<b>45</b>	3164.968	3089.318	3073.879	3059.984	3049.177
<b>50</b>	2845.384	2775.909	2763.558	2757.382	2721.873
<b>55</b>	2504.185	2431.622	2420.815	2420.815	2389.937
<b>60</b>	2133.652	2068.809	2037.931	2051.826	2005.509
<b>65</b>	1721.434	1673.574	1638.064	1667.398	1605.642
<b>70</b>	1304.585	1244.373	1225.846	1256.724	1208.864
<b>75</b>	890.823	832.155	832.155	832.155	813.628
<b>80</b>	473.973	464.710	464.710	456.991	438.464
<b>85</b>	159.020	166.740	177.547	169.828	154.389
<b>90</b>	13.895	13.895	21.614	13.895	13.895
<b>95</b>	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1634.06	N.A.	12.50
0-30	3492.46	N.A.	26.70
0-40	5765.42	N.A.	44.10
0-60	10311.9	N.A.	78.90
0-80	12843.38	N.A.	98.30
0-90	13064.37	N.A.	100.00
10-90	12643.39	N.A.	96.70
20-40	4131.36	N.A.	31.60
20-50	6509.96	N.A.	49.80
40-70	6186.22	N.A.	47.30
60-80	2531.48	N.A.	19.40
70-80	891.75	N.A.	6.80
80-90	220.99	N.A.	1.70
90-110	4.33	N.A.	0.00
90-120	4.33	N.A.	0.00
90-130	4.33	N.A.	0.00
90-150	4.33	N.A.	0.00
90-180	4.33	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13068.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	420.98
10-20	1213.08
20-30	1858.4
30-40	2272.96
40-50	2378.6
50-60	2167.88
60-70	1639.74
70-80	891.75
80-90	220.99
90-100	4.33
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	114	114	114	110	110	110	105	105	105	103
1	112	107	103	99	109	105	101	97	100	97	94	96	94	91	93	90	88	86
2	102	93	86	80	99	91	85	79	88	82	77	84	80	76	81	77	74	72
3	93	82	73	66	90	80	72	66	77	70	65	74	68	64	71	67	62	60
4	85	72	63	56	82	71	62	56	68	61	55	66	59	54	64	58	53	51
5	78	64	55	48	76	63	54	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	45	41	38
7	67	52	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	44	37	32	43	37	32	30
9	58	44	35	30	56	43	35	29	42	35	29	41	34	29	40	34	29	27
10	54	40	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

X=2H	Y=2H	23.5	25.2	23.9	25.5	25.8	23.4	25.1	23.8	25.4	25.7
	3H	25.3	26.8	25.7	27.2	27.5	25.2	26.7	25.6	27.0	27.4
	4H	26.0	27.4	26.4	27.7	28.1	25.8	27.2	26.2	27.5	27.9
	6H	26.4	27.7	26.8	28.1	28.4	26.2	27.5	26.6	27.8	28.2
	8H	26.5	27.7	26.9	28.1	28.5	26.3	27.5	26.7	27.9	28.3
	12H	26.6	27.8	27.0	28.1	28.6	26.3	27.5	26.8	27.9	28.3

UGR Viewed Endwise

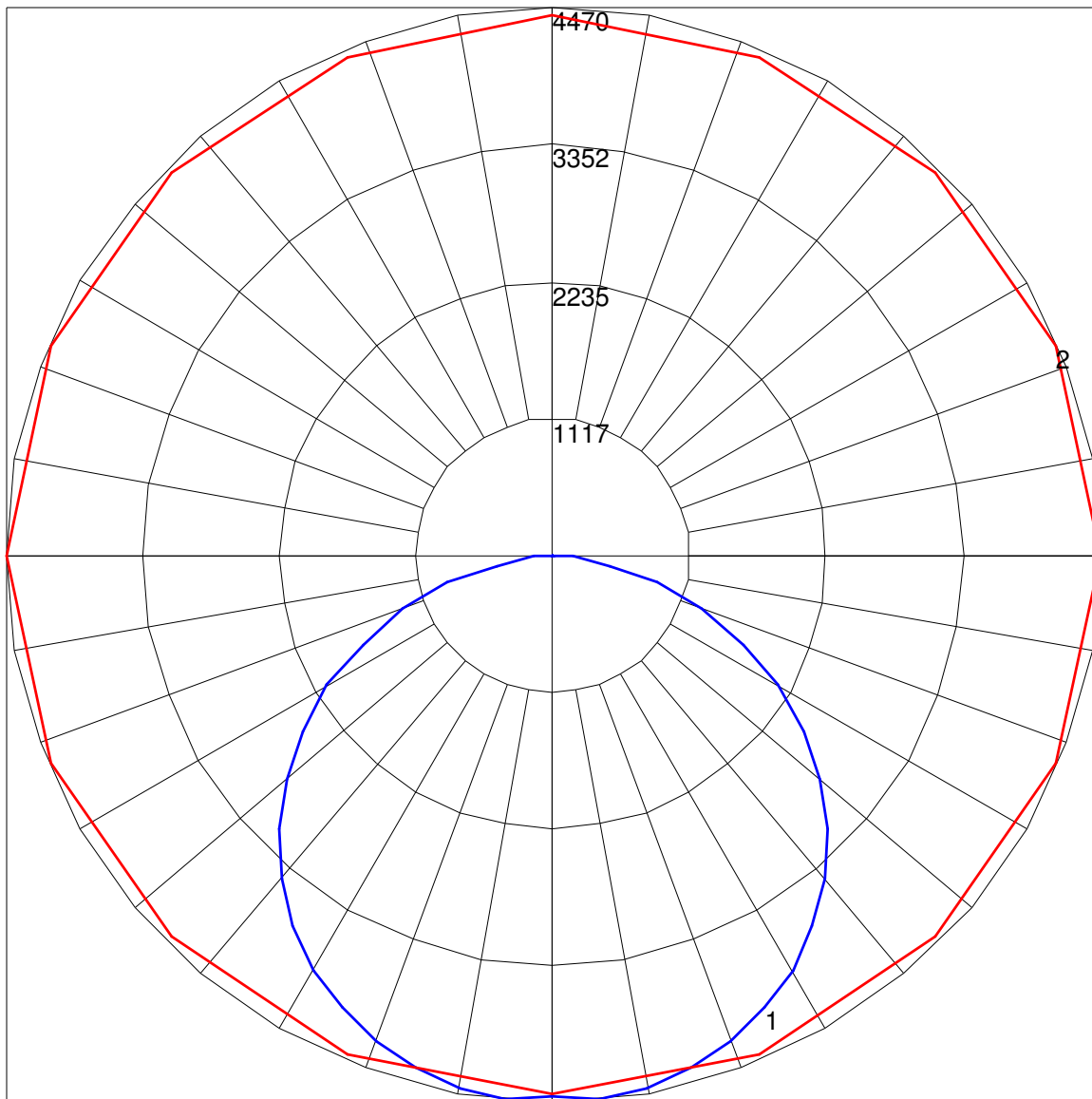
4H	2H	24.1	25.5	24.5	25.9	26.3	24.0	25.5	24.4	25.8	26.2
	3H	26.1	27.3	26.5	27.7	28.1	26.0	27.2	26.4	27.6	28.0
	4H	26.9	27.9	27.3	28.3	28.8	26.7	27.8	27.2	28.2	28.6
	6H	27.4	28.3	27.8	28.8	29.2	27.2	28.1	27.7	28.6	29.0
	8H	27.5	28.4	28.0	28.9	29.3	27.4	28.2	27.8	28.7	29.1
	12H	27.6	28.4	28.1	28.9	29.3	27.4	28.2	27.9	28.7	29.2

8H	4H	27.1	28.0	27.6	28.4	28.9	27.0	27.9	27.4	28.3	28.8
	6H	27.7	28.5	28.2	28.9	29.4	27.6	28.3	28.1	28.8	29.3
	8H	28.0	28.6	28.5	29.1	29.6	27.8	28.4	28.3	28.9	29.4
	12H	28.1	28.6	28.6	29.1	29.7	27.9	28.5	28.4	29.0	29.5

12H	4H	27.1	27.9	27.6	28.4	28.9	27.0	27.8	27.5	28.3	28.7
	6H	27.8	28.4	28.3	28.9	29.4	27.6	28.3	28.2	28.7	29.3
	8H	28.0	28.6	28.5	29.1	29.6	27.9	28.4	28.4	28.9	29.5

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 4469.553 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.)