



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-L60-835-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] 25-OCT-2019

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

[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-L60-835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	35.3
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	12545	11997	11830
55	12233	11569	11325
65	11408	10505	10169
75	9630	8502	8139
85	5079	4819	3958

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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>	1973.944	1973.944	1973.944	1973.944	1973.944
<b>5</b>	1988.367	1976.004	1967.762	1962.268	1960.207
<b>10</b>	1966.389	1954.026	1944.410	1938.916	1936.168
<b>15</b>	1933.421	1917.624	1908.008	1899.766	1902.514
<b>20</b>	1881.222	1868.172	1857.183	1848.941	1853.749
<b>25</b>	1815.287	1804.297	1788.500	1781.632	1778.885
<b>30</b>	1741.109	1725.312	1707.455	1701.960	1687.537
<b>35</b>	1646.327	1633.277	1612.672	1608.551	1593.441
<b>40</b>	1536.434	1508.961	1497.972	1490.417	1486.296
<b>45</b>	1407.998	1374.343	1367.475	1361.293	1356.485
<b>50</b>	1265.824	1234.917	1229.422	1226.675	1210.878
<b>55</b>	1114.035	1081.754	1076.946	1076.946	1063.210
<b>60</b>	949.196	920.350	906.613	912.795	892.190
<b>65</b>	765.813	744.522	728.725	741.774	714.301
<b>70</b>	580.370	553.583	545.341	559.078	537.786
<b>75</b>	396.300	370.200	370.200	370.200	361.958
<b>80</b>	210.856	206.735	206.735	203.301	195.059
<b>85</b>	70.743	74.177	78.985	75.551	68.683
<b>90</b>	6.181	6.181	9.616	6.181	6.181
<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	726.94	N.A.	12.50
0-30	1553.69	N.A.	26.70
0-40	2564.86	N.A.	44.10
0-60	4587.45	N.A.	78.90
0-80	5713.63	N.A.	98.30
0-90	5811.94	N.A.	100.00
10-90	5624.66	N.A.	96.70
20-40	1837.91	N.A.	31.60
20-50	2896.08	N.A.	49.80
40-70	2752.06	N.A.	47.30
60-80	1126.18	N.A.	19.40
70-80	396.71	N.A.	6.80
80-90	98.31	N.A.	1.70
90-110	1.93	N.A.	0.00
90-120	1.93	N.A.	0.00
90-130	1.93	N.A.	0.00
90-150	1.93	N.A.	0.00
90-180	1.93	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5813.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	187.28
10-20	539.66
20-30	826.74
30-40	1011.17
40-50	1058.17
50-60	964.42
60-70	729.47
70-80	396.71
80-90	98.31
90-100	1.93
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	256	256	256	256	250	250	250	250	239	239	239	229	229	229	220	220	220	215
1	234	224	215	206	228	219	211	203	210	203	197	201	196	190	194	189	185	180
2	213	195	180	168	207	191	177	166	183	172	162	176	166	158	169	162	154	150
3	194	171	153	139	188	167	151	138	161	147	135	155	143	133	149	139	131	126
4	177	151	132	117	172	148	130	117	143	127	115	138	124	113	133	121	112	107
5	163	135	115	101	158	132	114	100	128	112	99	123	109	98	119	107	97	92
6	150	121	102	88	146	119	101	87	115	99	87	112	97	86	108	95	85	81
7	139	110	91	77	135	108	90	77	105	88	76	101	87	76	99	85	75	71
8	129	100	82	69	126	99	81	69	96	80	68	93	78	68	90	77	67	63
9	121	92	74	62	118	90	73	62	88	72	61	86	71	61	83	70	61	57
10	113	85	67	56	110	83	67	56	81	66	56	79	65	55	77	64	55	51

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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	20.7	22.4	21.1	22.7	23.0	20.6	22.3	21.0	22.6	22.9
	3H	22.5	24.0	22.9	24.3	24.7	22.4	23.9	22.7	24.2	24.5
	4H	23.2	24.6	23.6	24.9	25.3	23.0	24.4	23.4	24.7	25.1
	6H	23.6	24.9	24.0	25.2	25.6	23.3	24.6	23.7	25.0	25.4
	8H	23.7	24.9	24.1	25.3	25.7	23.4	24.7	23.9	25.1	25.5
	12H	23.7	24.9	24.2	25.3	25.7	23.5	24.7	23.9	25.1	25.5

UGR Viewed Endwise

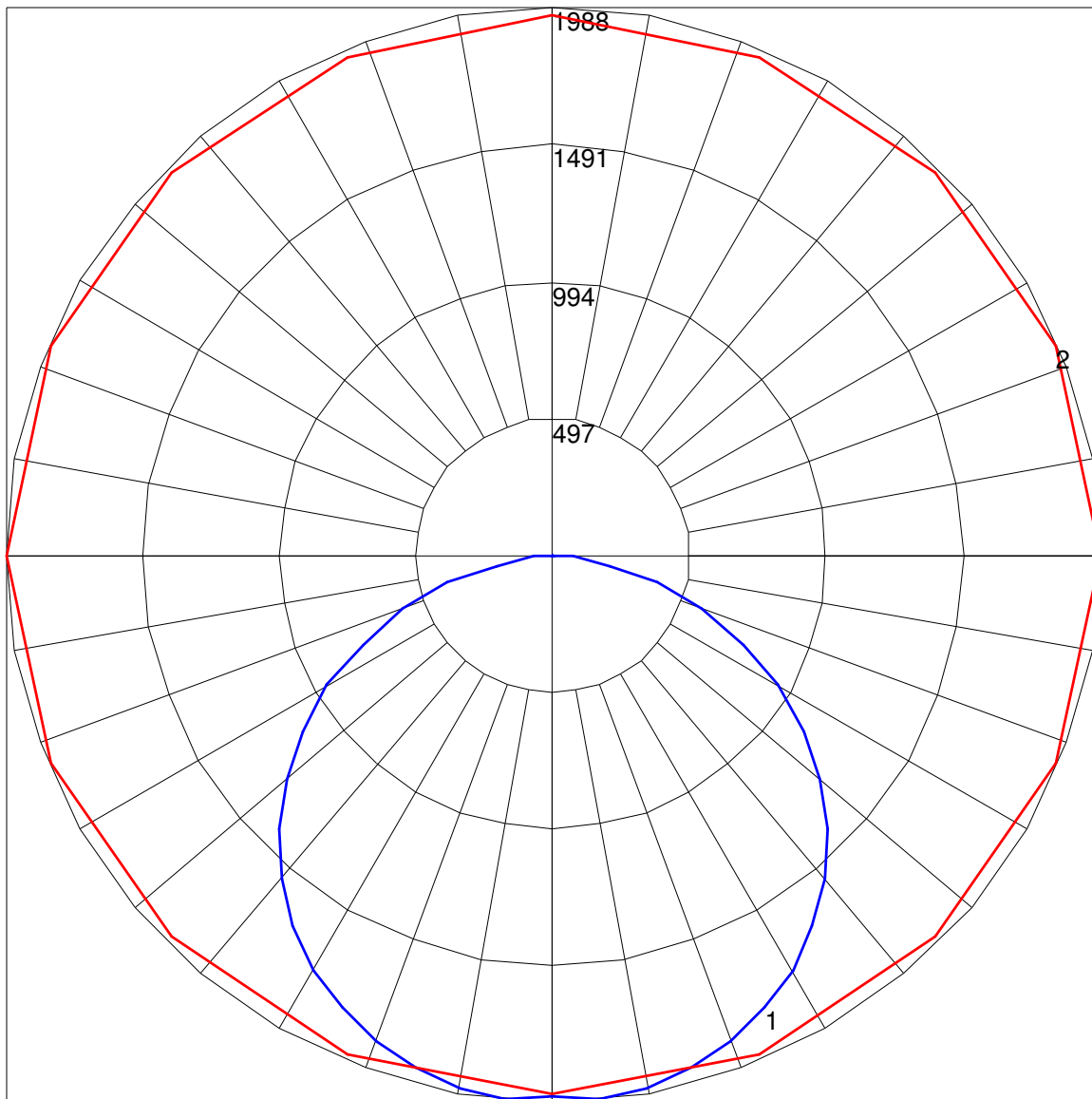
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	24.6	25.4	25.1	25.9	26.3

8H	4H	24.3	25.2	24.8	25.6	26.1	24.2	25.0	24.6	25.5	25.9
	6H	24.9	25.6	25.4	26.1	26.6	24.8	25.5	25.3	26.0	26.5
	8H	25.1	25.8	25.6	26.3	26.8	25.0	25.6	25.5	26.1	26.6
	12H	25.2	25.8	25.8	26.3	26.9	25.1	25.7	25.6	26.2	26.7

12H	4H	24.3	25.1	24.8	25.6	26.0	24.2	25.0	24.7	25.4	25.9
	6H	25.0	25.6	25.5	26.1	26.6	24.8	25.5	25.3	25.9	26.5
	8H	25.2	25.8	25.7	26.3	26.8	25.0	25.6	25.5	26.1	26.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1988.367 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.)