



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L25-8TW-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] 2' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-L25-8TW-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	19.78
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)	1.62 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	25508	24412	24113
55	24848	23523	23084
65	23132	21335	20727
75	19451	17225	16589
85	10074	9661	8068

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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>	853.291	853.291	853.291	853.291	853.291
<b>5</b>	859.526	854.181	850.619	848.243	847.353
<b>10</b>	850.025	844.681	840.524	838.149	836.961
<b>15</b>	835.774	828.945	824.788	821.225	822.413
<b>20</b>	813.209	807.568	802.818	799.255	801.333
<b>25</b>	784.707	779.956	773.128	770.159	768.971
<b>30</b>	752.642	745.813	738.093	735.718	729.483
<b>35</b>	711.669	706.028	697.121	695.340	688.808
<b>40</b>	664.165	652.289	647.539	644.273	642.492
<b>45</b>	608.645	594.097	591.128	588.456	586.378
<b>50</b>	547.187	533.826	531.451	530.263	523.435
<b>55</b>	481.572	467.618	465.539	465.539	459.601
<b>60</b>	410.316	397.846	391.908	394.580	385.673
<b>65</b>	331.044	321.840	315.011	320.652	308.776
<b>70</b>	250.881	239.301	235.739	241.677	232.473
<b>75</b>	171.311	160.029	160.029	160.029	156.466
<b>80</b>	91.148	89.367	89.367	87.882	84.320
<b>85</b>	30.581	32.065	34.144	32.659	29.690
<b>90</b>	2.672	2.672	4.157	2.672	2.672
<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	314.24	N.A.	12.50
0-30	671.62	N.A.	26.70
0-40	1108.73	N.A.	44.10
0-60	1983.05	N.A.	78.90
0-80	2469.87	N.A.	98.30
0-90	2512.37	N.A.	100.00
10-90	2431.41	N.A.	96.70
20-40	794.49	N.A.	31.60
20-50	1251.91	N.A.	49.80
40-70	1189.65	N.A.	47.30
60-80	486.82	N.A.	19.40
70-80	171.49	N.A.	6.80
80-90	42.50	N.A.	1.70
90-110	0.83	N.A.	0.00
90-120	0.83	N.A.	0.00
90-130	0.83	N.A.	0.00
90-150	0.83	N.A.	0.00
90-180	0.83	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2513.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.96
10-20	233.28
20-30	357.38
30-40	437.11
40-50	457.42
50-60	416.90
60-70	315.33
70-80	171.49
80-90	42.50
90-100	0.83
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	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

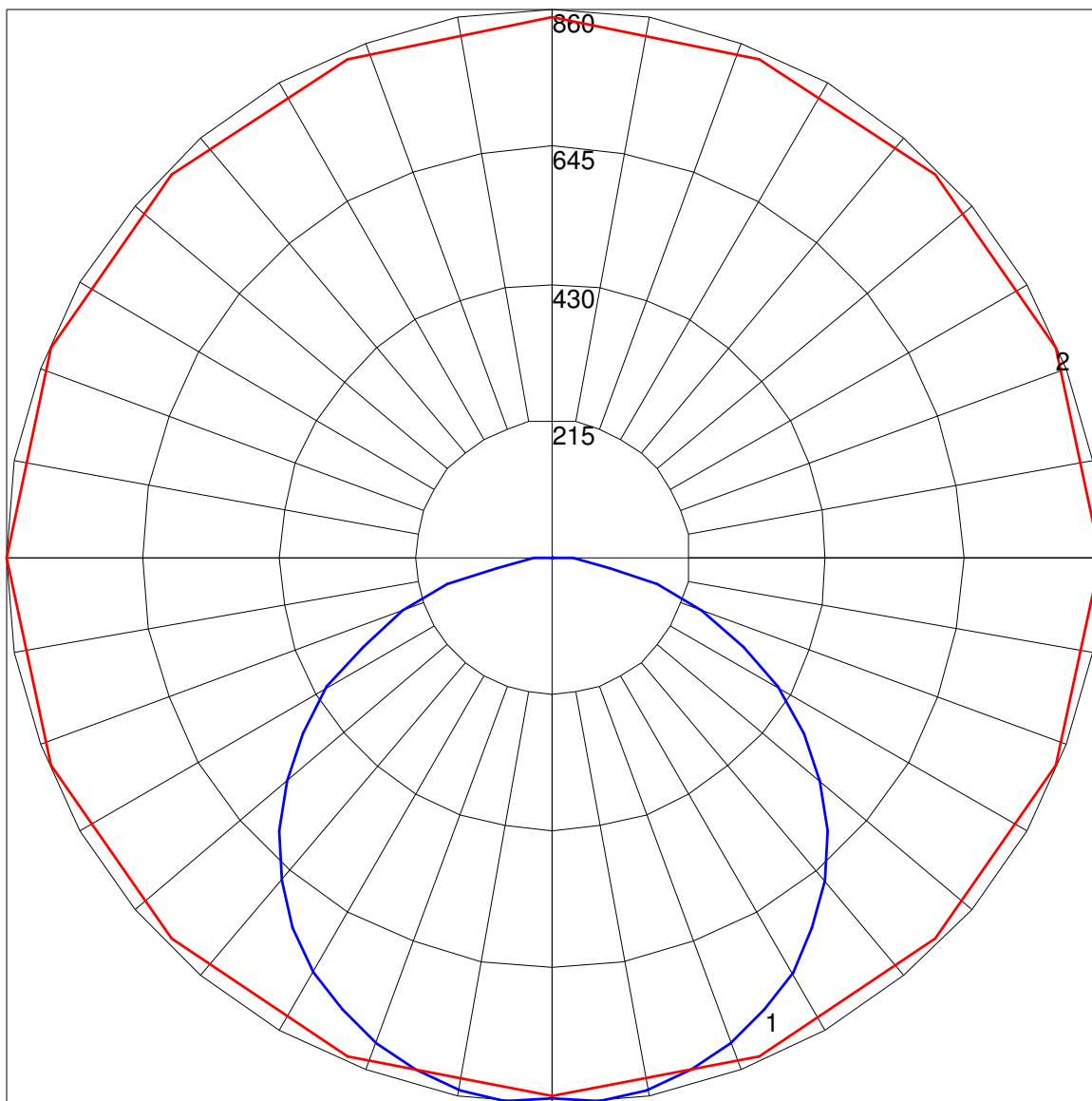
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	23.3	25.0	23.7	25.3	25.6	23.2	24.9	23.6	25.2	25.5
	3H	25.1	26.6	25.5	26.9	27.3	25.0	26.4	25.3	26.8	27.1
	4H	25.7	27.2	26.1	27.5	27.9	25.5	27.0	25.9	27.3	27.7
	6H	26.2	27.5	26.6	27.8	28.2	25.9	27.2	26.3	27.6	28.0
	8H	26.3	27.5	26.7	27.9	28.3	26.0	27.3	26.5	27.7	28.1
	12H	26.3	27.5	26.8	27.9	28.3	26.1	27.3	26.5	27.7	28.1
4H	2H	23.9	25.3	24.3	25.7	26.0	23.8	25.2	24.2	25.6	25.9
	3H	25.9	27.1	26.3	27.5	27.9	25.8	27.0	26.2	27.4	27.8
	4H	26.6	27.7	27.1	28.1	28.5	26.5	27.6	26.9	28.0	28.4
	6H	27.2	28.1	27.6	28.5	29.0	27.0	27.9	27.4	28.4	28.8
	8H	27.3	28.2	27.8	28.6	29.1	27.1	28.0	27.6	28.4	28.9
	12H	27.4	28.2	27.9	28.6	29.1	27.2	28.0	27.7	28.5	28.9
8H	4H	26.9	27.8	27.3	28.2	28.7	26.8	27.6	27.2	28.1	28.5
	6H	27.5	28.2	28.0	28.7	29.2	27.3	28.1	27.8	28.6	29.0
	8H	27.7	28.4	28.2	28.9	29.3	27.6	28.2	28.1	28.7	29.2
	12H	27.8	28.4	28.3	28.9	29.5	27.7	28.2	28.2	28.7	29.3
12H	4H	26.9	27.7	27.4	28.2	28.6	26.8	27.6	27.3	28.0	28.5
	6H	27.6	28.2	28.1	28.7	29.2	27.4	28.1	27.9	28.5	29.0
	8H	27.8	28.4	28.3	28.8	29.4	27.6	28.2	28.1	28.7	29.2

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 859.526 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.)