



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L75-8TW-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] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L75-8TW-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	57.54
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)	3.62 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	34514	33013	32570
55	33645	31828	31180
65	31359	28890	27996
75	26440	23365	22407
85	13869	13201	10898

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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>	2579.903	2579.903	2579.903	2579.903	2579.903
<b>5</b>	2598.755	2582.597	2571.824	2564.643	2561.950
<b>10</b>	2570.029	2553.871	2541.304	2534.122	2530.532
<b>15</b>	2526.941	2506.295	2493.727	2482.955	2486.546
<b>20</b>	2458.718	2441.662	2427.300	2416.528	2422.811
<b>25</b>	2372.542	2358.179	2337.533	2328.556	2324.965
<b>30</b>	2275.593	2254.947	2231.608	2224.426	2205.575
<b>35</b>	2151.715	2134.659	2107.729	2102.343	2082.594
<b>40</b>	2008.088	1972.181	1957.818	1947.944	1942.558
<b>45</b>	1840.223	1796.238	1787.261	1779.182	1772.898
<b>50</b>	1654.406	1614.011	1606.829	1603.239	1582.592
<b>55</b>	1456.021	1413.830	1407.547	1407.547	1389.593
<b>60</b>	1240.580	1202.878	1184.924	1193.003	1166.073
<b>65</b>	1000.902	973.074	952.428	969.484	933.577
<b>70</b>	758.531	723.522	712.750	730.703	702.876
<b>75</b>	517.956	483.844	483.844	483.844	473.072
<b>80</b>	275.585	270.199	270.199	265.710	254.938
<b>85</b>	92.460	96.948	103.232	98.744	89.767
<b>90</b>	8.079	8.079	12.567	8.079	8.079
<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	950.10	N.A.	12.50
0-30	2030.64	N.A.	26.70
0-40	3352.22	N.A.	44.10
0-60	5995.7	N.A.	78.90
0-80	7467.59	N.A.	98.30
0-90	7596.09	N.A.	100.00
10-90	7351.31	N.A.	96.70
20-40	2402.12	N.A.	31.60
20-50	3785.12	N.A.	49.80
40-70	3596.88	N.A.	47.30
60-80	1471.89	N.A.	19.40
70-80	518.49	N.A.	6.80
80-90	128.49	N.A.	1.70
90-110	2.52	N.A.	0.00
90-120	2.52	N.A.	0.00
90-130	2.52	N.A.	0.00
90-150	2.52	N.A.	0.00
90-180	2.52	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7598.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	244.77
10-20	705.33
20-30	1080.54
30-40	1321.58
40-50	1383.00
50-60	1260.48
60-70	953.40
70-80	518.49
80-90	128.49
90-100	2.52
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	94	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	24.3	26.0	24.7	26.3	26.6	24.2	25.9	24.6	26.2	26.5
	3H	26.1	27.6	26.5	27.9	28.3	26.0	27.5	26.3	27.8	28.1
	4H	26.8	28.2	27.2	28.5	28.9	26.6	28.0	27.0	28.3	28.7
	6H	27.2	28.5	27.6	28.8	29.2	26.9	28.2	27.3	28.6	29.0
	8H	27.3	28.5	27.7	28.9	29.3	27.0	28.3	27.5	28.7	29.1
	12H	27.3	28.5	27.8	28.9	29.3	27.1	28.3	27.5	28.7	29.1

UGR Viewed Endwise

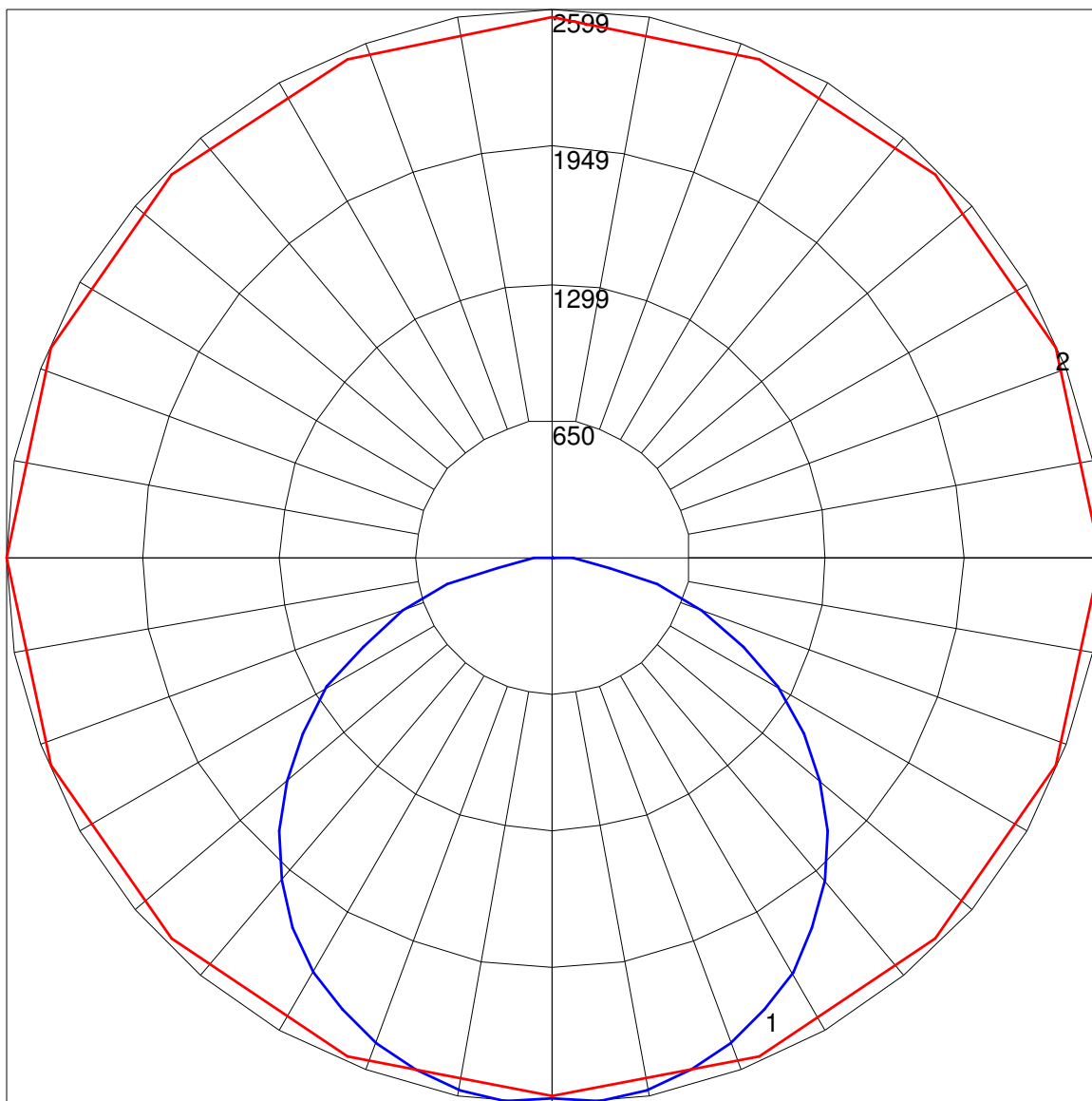
4H	2H	24.9	26.3	25.3	26.7	27.0	24.8	26.2	25.2	26.6	27.0
	3H	26.9	28.1	27.3	28.5	28.9	26.8	28.0	27.2	28.4	28.8
	4H	27.7	28.7	28.1	29.1	29.6	27.5	28.6	27.9	29.0	29.4
	6H	28.2	29.1	28.6	29.5	30.0	28.0	28.9	28.5	29.4	29.8
	8H	28.3	29.2	28.8	29.6	30.1	28.1	29.0	28.6	29.5	29.9
	12H	28.4	29.2	28.9	29.7	30.1	28.2	29.0	28.7	29.5	29.9

8H	4H	27.9	28.8	28.4	29.2	29.7	27.8	28.6	28.2	29.1	29.5
	6H	28.5	29.2	29.0	29.7	30.2	28.4	29.1	28.9	29.6	30.1
	8H	28.7	29.4	29.2	29.9	30.4	28.6	29.2	29.1	29.7	30.2
	12H	28.8	29.4	29.4	29.9	30.5	28.7	29.3	29.2	29.8	30.3

12H	4H	27.9	28.7	28.4	29.2	29.6	27.8	28.6	28.3	29.0	29.5
	6H	28.6	29.2	29.1	29.7	30.2	28.4	29.1	28.9	29.5	30.1
	8H	28.8	29.4	29.3	29.9	30.4	28.6	29.2	29.1	29.7	30.3

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 2598.755 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.)