



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L40-8TW-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] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L40-8TW-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	30.98
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	18401	17601	17365
55	17938	16969	16624
65	16719	15403	14926
75	14097	12457	11947
85	7395	7038	5810

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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	1375.496	1375.496	1375.496	1375.496	1375.496
5	1385.547	1376.932	1371.189	1367.360	1365.924
10	1370.232	1361.617	1354.917	1351.088	1349.173
15	1347.259	1336.251	1329.551	1323.808	1325.722
20	1310.885	1301.792	1294.134	1288.391	1291.741
25	1264.940	1257.282	1246.274	1241.488	1239.574
30	1213.251	1202.243	1189.800	1185.971	1175.920
35	1147.204	1138.111	1123.753	1120.881	1110.352
40	1070.628	1051.484	1043.827	1038.562	1035.690
45	981.130	957.679	952.893	948.585	945.235
50	882.060	860.523	856.694	854.780	843.772
55	776.289	753.795	750.445	750.445	740.873
60	661.425	641.324	631.752	636.059	621.701
65	533.639	518.802	507.795	516.888	497.744
70	404.417	385.752	380.008	389.580	374.744
75	276.152	257.965	257.965	257.965	252.222
80	146.930	144.059	144.059	141.666	135.922
85	49.296	51.689	55.039	52.646	47.860
90	4.307	4.307	6.700	4.307	4.307
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	506.55	N.A.	12.50
0-30	1082.65	N.A.	26.70
0-40	1787.26	N.A.	44.10
0-60	3196.65	N.A.	78.90
0-80	3981.41	N.A.	98.30
0-90	4049.91	N.A.	100.00
10-90	3919.41	N.A.	96.70
20-40	1280.71	N.A.	31.60
20-50	2018.07	N.A.	49.80
40-70	1917.71	N.A.	47.30
60-80	784.75	N.A.	19.40
70-80	276.44	N.A.	6.80
80-90	68.51	N.A.	1.70
90-110	1.34	N.A.	0.00
90-120	1.34	N.A.	0.00
90-130	1.34	N.A.	0.00
90-150	1.34	N.A.	0.00
90-180	1.34	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4051.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	130.50
10-20	376.05
20-30	576.10
30-40	704.61
40-50	737.36
50-60	672.04
60-70	508.31
70-80	276.44
80-90	68.51
90-100	1.34
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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102
1	111	106	101	97	108	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	85	79	98	90	84	78	86	81	76	83	79	75	80	76	73	71
3	92	81	72	66	89	79	71	65	76	69	64	73	68	63	71	66	62	59
4	84	71	62	55	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	77	64	54	48	75	63	54	47	60	53	47	58	52	46	56	51	46	44
6	71	57	48	41	69	56	48	41	54	47	41	53	46	41	51	45	40	38
7	66	52	43	37	64	51	42	36	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	60	47	38	32	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	56	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	37	30	26	24

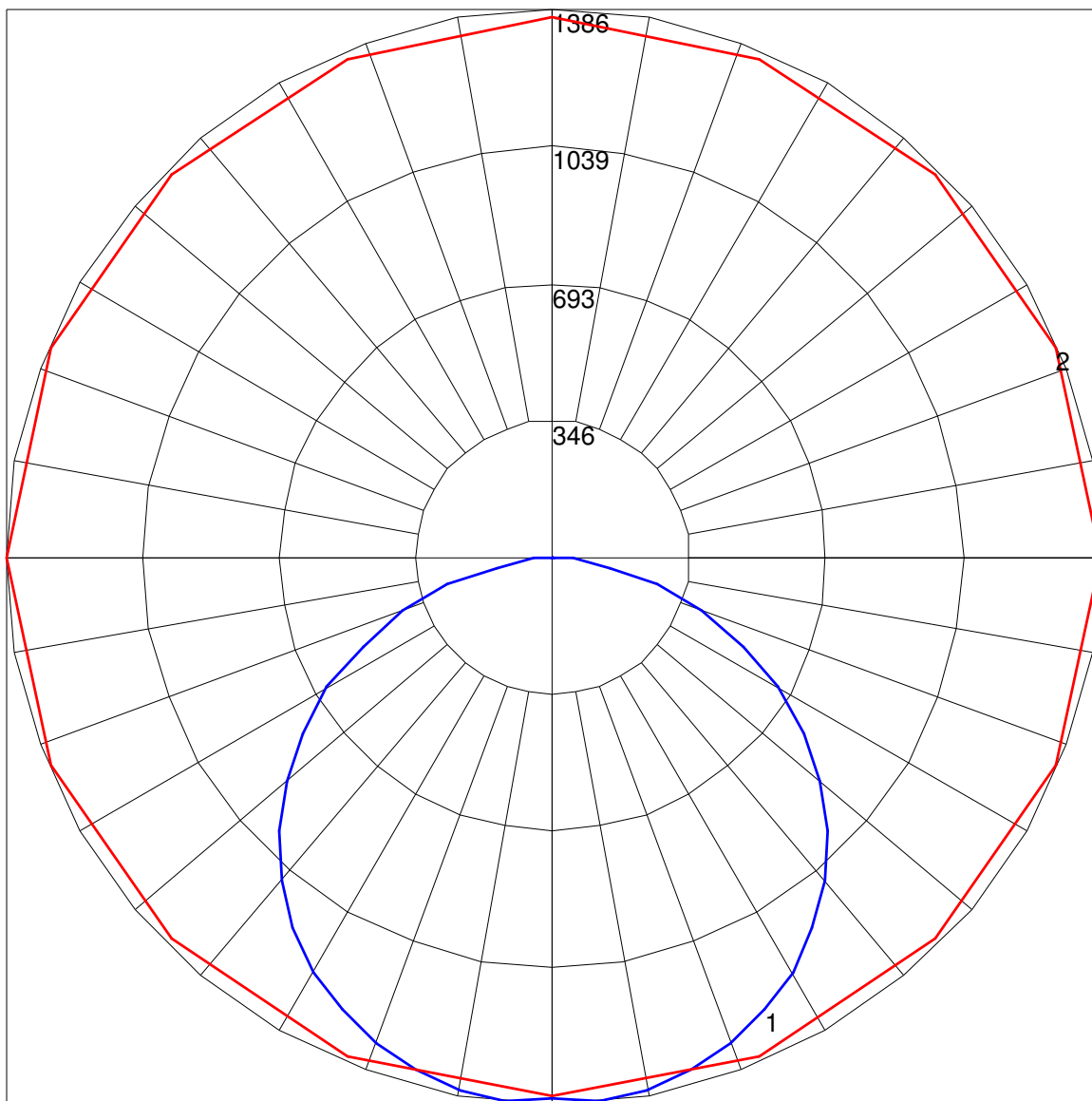
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**UGR TABLE - CORRECTED**

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	22.1	23.8	22.5	24.1	24.4	22.0	23.7	22.4	24.0	24.3
	3H	23.9	25.4	24.3	25.7	26.1	23.8	25.3	24.1	25.6	25.9
	4H	24.6	26.0	25.0	26.3	26.7	24.4	25.8	24.8	26.1	26.5
	6H	25.0	26.3	25.4	26.6	27.0	24.7	26.0	25.1	26.4	26.8
	8H	25.1	26.3	25.5	26.7	27.1	24.8	26.1	25.3	26.5	26.9
	12H	25.1	26.3	25.6	26.7	27.1	24.9	26.1	25.3	26.5	26.9
4H	2H	22.7	24.1	23.1	24.5	24.8	22.6	24.0	23.0	24.4	24.8
	3H	24.7	25.9	25.1	26.3	26.7	24.6	25.8	25.0	26.2	26.6
	4H	25.5	26.5	25.9	26.9	27.4	25.3	26.4	25.7	26.8	27.2
	6H	26.0	26.9	26.4	27.3	27.8	25.8	26.7	26.3	27.2	27.6
	8H	26.1	27.0	26.6	27.4	27.9	25.9	26.8	26.4	27.3	27.7
	12H	26.2	27.0	26.7	27.5	27.9	26.0	26.8	26.5	27.3	27.7
8H	4H	25.7	26.6	26.2	27.0	27.5	25.6	26.4	26.0	26.9	27.3
	6H	26.3	27.0	26.8	27.5	28.0	26.2	26.9	26.7	27.4	27.9
	8H	26.5	27.2	27.0	27.7	28.2	26.4	27.0	26.9	27.5	28.0
	12H	26.6	27.2	27.2	27.7	28.3	26.5	27.1	27.0	27.6	28.1
12H	4H	25.7	26.5	26.2	27.0	27.4	25.6	26.4	26.1	26.8	27.3
	6H	26.4	27.0	26.9	27.5	28.0	26.2	26.9	26.7	27.3	27.9
	8H	26.6	27.2	27.1	27.7	28.2	26.4	27.0	26.9	27.5	28.1

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1385.547 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.)