



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L40-835-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] 25-OCT-2019

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

[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-L40-835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	25.2
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	38893	37221	36765
55	37887	35867	35196
65	35269	32530	31602
75	29657	26263	25293
85	15360	14730	12301

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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	1301.024	1301.024	1301.024	1301.024	1301.024
5	1310.530	1302.382	1296.950	1293.328	1291.970
10	1296.044	1287.896	1281.558	1277.937	1276.126
15	1274.315	1263.904	1257.566	1252.134	1253.944
20	1239.911	1231.310	1224.067	1218.635	1221.804
25	1196.453	1189.210	1178.798	1174.271	1172.461
30	1147.563	1137.151	1125.381	1121.760	1112.253
35	1085.092	1076.491	1062.910	1060.194	1050.235
40	1012.662	994.554	987.311	982.332	979.616
45	928.009	905.828	901.301	897.227	894.058
50	834.303	813.932	810.311	808.500	798.088
55	734.259	712.983	709.814	709.814	700.760
60	625.614	606.601	597.548	601.622	588.041
65	504.747	490.713	480.301	488.903	470.795
70	382.521	364.866	359.434	368.488	354.454
75	261.201	243.999	243.999	243.999	238.566
80	138.975	136.259	136.259	133.996	128.563
85	46.627	48.890	52.059	49.796	45.269
90	4.074	4.074	6.338	4.074	4.074
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	479.13	N.A.	12.50
0-30	1024.03	N.A.	26.70
0-40	1690.49	N.A.	44.10
0-60	3023.58	N.A.	78.90
0-80	3765.84	N.A.	98.30
0-90	3830.64	N.A.	100.00
10-90	3707.21	N.A.	96.70
20-40	1211.37	N.A.	31.60
20-50	1908.8	N.A.	49.80
40-70	1813.88	N.A.	47.30
60-80	742.26	N.A.	19.40
70-80	261.47	N.A.	6.80
80-90	64.80	N.A.	1.70
90-110	1.27	N.A.	0.00
90-120	1.27	N.A.	0.00
90-130	1.27	N.A.	0.00
90-150	1.27	N.A.	0.00
90-180	1.27	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3831.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.44
10-20	355.69
20-30	544.91
30-40	666.46
40-50	697.44
50-60	635.65
60-70	480.79
70-80	261.47
80-90	64.80
90-100	1.27
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	287	287	287	287	280	280	280	280	267	267	267	256	256	256	246	246	246	241
1	262	250	240	231	255	245	235	227	234	227	220	225	219	213	216	211	207	201
2	238	218	201	187	231	213	198	185	205	192	181	197	186	177	189	180	173	167
3	217	191	171	155	210	187	169	154	180	164	151	173	160	148	167	156	146	141
4	198	169	148	131	192	166	146	130	160	142	128	154	139	127	149	136	125	120
5	182	151	129	113	177	148	127	112	143	125	111	138	122	110	133	120	108	103
6	168	135	114	98	163	133	113	98	129	110	97	125	108	96	121	106	95	90
7	155	123	101	86	151	121	100	86	117	99	85	113	97	85	110	95	84	79
8	145	112	91	77	141	110	90	77	107	89	76	104	88	76	101	86	75	71
9	135	103	83	69	132	101	82	69	98	81	69	96	80	68	93	79	68	63
10	127	95	75	63	123	93	75	62	91	74	62	89	73	62	86	72	62	57

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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

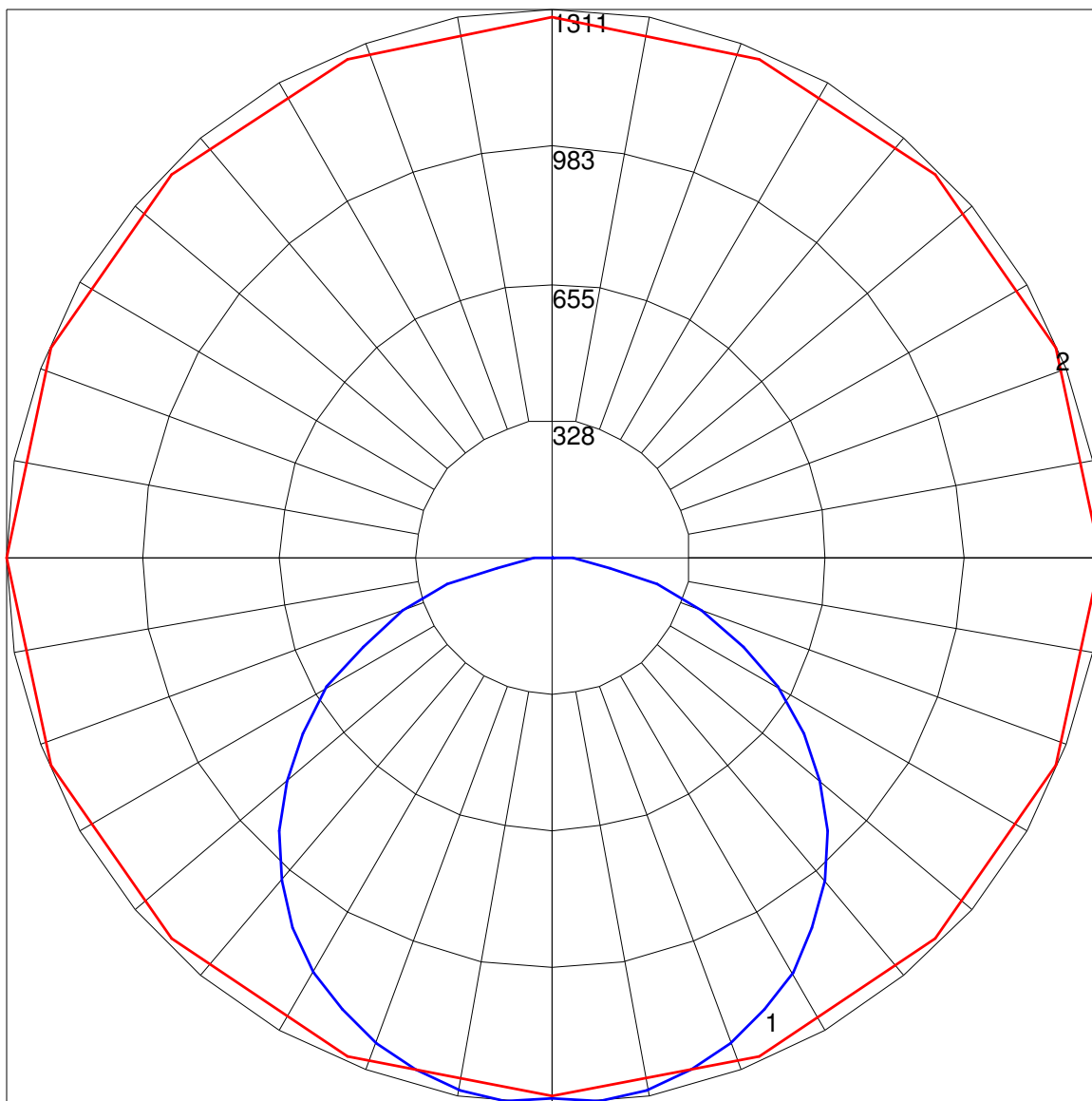
X=2H	Y=2H	21.7	23.4	22.1	23.7	24.0	21.6	23.3	22.0	23.6	23.9
	3H	23.5	25.0	23.9	25.3	25.7	23.4	24.8	23.7	25.2	25.5
	4H	24.1	25.6	24.5	25.9	26.3	23.9	25.4	24.3	25.7	26.1
	6H	24.6	25.9	25.0	26.2	26.6	24.3	25.6	24.7	26.0	26.4
	8H	24.7	25.9	25.1	26.3	26.7	24.4	25.7	24.9	26.1	26.5
	12H	24.7	25.9	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.5

UGR Viewed Endwise

4H	2H	22.3	23.7	22.7	24.1	24.4	22.2	23.6	22.6	24.0	24.3
	3H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
	4H	25.0	26.1	25.5	26.5	26.9	24.9	26.0	25.3	26.4	26.8
	6H	25.6	26.5	26.0	26.9	27.4	25.4	26.3	25.8	26.8	27.2
	8H	25.7	26.6	26.2	27.0	27.5	25.5	26.4	26.0	26.8	27.3
	12H	25.8	26.6	26.3	27.0	27.5	25.6	26.4	26.1	26.9	27.3
8H	4H	25.3	26.2	25.7	26.6	27.1	25.2	26.0	25.6	26.5	26.9
	6H	25.9	26.6	26.4	27.1	27.6	25.7	26.5	26.2	27.0	27.4
	8H	26.1	26.8	26.6	27.3	27.7	26.0	26.6	26.5	27.1	27.6
	12H	26.2	26.8	26.7	27.3	27.9	26.1	26.6	26.6	27.1	27.7
12H	4H	25.3	26.1	25.8	26.6	27.0	25.2	26.0	25.7	26.4	26.9
	6H	26.0	26.6	26.5	27.1	27.6	25.8	26.5	26.3	26.9	27.4
	8H	26.2	26.8	26.7	27.2	27.8	26.0	26.6	26.5	27.1	27.6

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 1310.53 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.)