



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L30-835-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-L30-835-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	217
Total Luminaire Watts	13.5
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	29738	28460	28111
55	28969	27424	26911
65	26967	24873	24164
75	22676	20081	19340
85	11744	11263	9406

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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>	994.781	994.781	994.781	994.781	994.781
<b>5</b>	1002.049	995.819	991.666	988.897	987.858
<b>10</b>	990.973	984.743	979.897	977.128	975.744
<b>15</b>	974.359	966.398	961.552	957.399	958.783
<b>20</b>	948.053	941.477	935.938	931.785	934.208
<b>25</b>	914.824	909.286	901.325	897.864	896.480
<b>30</b>	877.442	869.481	860.482	857.713	850.444
<b>35</b>	829.676	823.100	812.716	810.639	803.024
<b>40</b>	774.295	760.450	754.912	751.104	749.028
<b>45</b>	709.569	692.608	689.147	686.032	683.609
<b>50</b>	637.920	622.344	619.575	618.190	610.229
<b>55</b>	561.425	545.156	542.734	542.734	535.811
<b>60</b>	478.353	463.816	456.893	460.008	449.624
<b>65</b>	385.936	375.206	367.245	373.822	359.976
<b>70</b>	292.481	278.982	274.828	281.751	271.021
<b>75</b>	199.718	186.565	186.565	186.565	182.411
<b>80</b>	106.262	104.185	104.185	102.455	98.301
<b>85</b>	35.652	37.382	39.805	38.074	34.613
<b>90</b>	3.115	3.115	4.846	3.115	3.115
<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	366.35	N.A.	12.50
0-30	782.99	N.A.	26.70
0-40	1292.58	N.A.	44.10
0-60	2311.87	N.A.	78.90
0-80	2879.42	N.A.	98.30
0-90	2928.96	N.A.	100.00
10-90	2834.58	N.A.	96.70
20-40	926.23	N.A.	31.60
20-50	1459.5	N.A.	49.80
40-70	1386.92	N.A.	47.30
60-80	567.55	N.A.	19.40
70-80	199.93	N.A.	6.80
80-90	49.55	N.A.	1.70
90-110	0.97	N.A.	0.00
90-120	0.97	N.A.	0.00
90-130	0.97	N.A.	0.00
90-150	0.97	N.A.	0.00
90-180	0.97	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2929.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.38
10-20	271.97
20-30	416.64
30-40	509.59
40-50	533.27
50-60	486.03
60-70	367.62
70-80	199.93
80-90	49.55
90-100	0.97
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	219	219	219	219	214	214	214	214	204	204	204	196	196	196	188	188	188	184
1	200	191	183	176	195	187	180	173	179	173	168	172	167	163	165	162	158	154
2	182	167	154	143	177	163	151	142	156	147	138	150	142	135	145	138	132	128
3	166	146	131	119	161	143	129	118	138	125	116	132	122	113	128	119	112	107
4	151	129	113	100	147	127	111	100	122	109	98	118	106	97	114	104	96	91
5	139	115	98	86	135	113	97	86	109	95	85	105	93	84	102	91	83	79
6	128	104	87	75	125	102	86	75	98	84	74	95	83	73	92	81	73	69
7	119	94	78	66	116	92	77	66	89	75	65	87	74	65	84	73	64	61
8	111	85	70	59	108	84	69	59	82	68	58	79	67	58	77	66	58	54
9	103	78	63	53	101	77	63	53	75	62	52	73	61	52	71	60	52	48
10	97	72	58	48	94	71	57	48	69	56	47	68	56	47	66	55	47	44

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**UGR TABLE - CORRECTED**

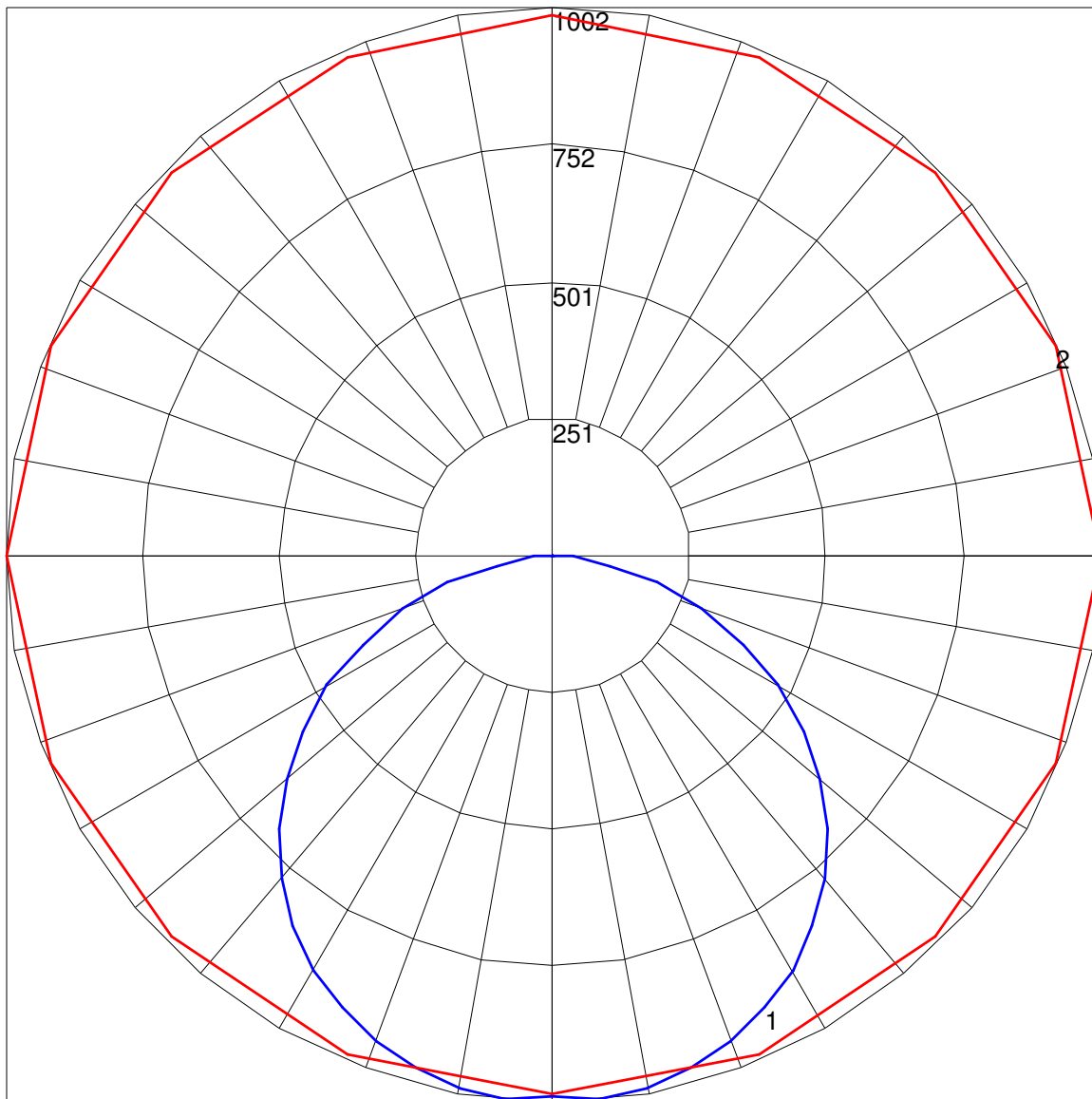
Reflectances

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	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
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 = 1002.049 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.)