



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-835-(L37)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 06-12-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-835-(L37)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[\_SEARCH\_MOUNTING] Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	27.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13362	11298	11278
55	11028	9669	9929
65	9082	8121	8364
75	6137	6673	6853
85	3601	5732	5620

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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>	1223.818	1223.818	1223.818	1223.818	1223.818
<b>5</b>	1237.254	1219.145	1219.729	1216.808	1204.541
<b>10</b>	1216.808	1201.620	1204.541	1202.789	1191.690
<b>15</b>	1181.175	1170.076	1178.254	1181.759	1170.076
<b>20</b>	1127.432	1124.511	1138.531	1144.372	1137.362
<b>25</b>	1064.342	1068.431	1088.293	1101.729	1096.471
<b>30</b>	991.906	997.748	1031.629	1052.075	1050.907
<b>35</b>	903.698	914.213	963.282	991.906	995.995
<b>40</b>	809.648	817.242	879.163	922.391	932.322
<b>45</b>	698.657	717.935	789.202	846.450	860.470
<b>50</b>	583.577	614.538	701.578	764.083	781.608
<b>55</b>	473.171	513.478	611.617	677.043	702.162
<b>60</b>	380.873	418.260	525.161	590.587	616.875
<b>65</b>	292.665	333.556	444.547	504.131	526.914
<b>70</b>	205.041	259.952	368.022	420.012	442.210
<b>75</b>	126.179	196.278	297.338	346.408	365.685
<b>80</b>	70.099	135.525	237.170	282.734	295.002
<b>85</b>	29.792	93.466	189.268	228.407	236.585
<b>90</b>	4.089	64.258	146.625	181.090	192.189
<b>95</b>	0.584	43.812	117.416	143.704	155.387
<b>100</b>	0.000	28.624	91.129	117.416	126.763
<b>105</b>	0.000	20.446	70.684	95.802	103.397
<b>110</b>	0.000	14.020	54.327	78.278	84.703
<b>115</b>	0.000	11.683	44.396	65.426	70.099
<b>120</b>	0.000	8.762	33.881	53.743	58.416
<b>125</b>	0.000	5.257	25.119	42.644	47.901
<b>130</b>	0.000	3.505	18.109	33.297	37.970
<b>135</b>	0.000	1.752	13.436	26.287	29.792
<b>140</b>	0.000	1.752	9.347	20.446	23.366
<b>145</b>	0.000	0.000	5.842	12.852	16.357
<b>150</b>	0.000	0.000	4.089	9.347	11.683
<b>155</b>	0.000	0.000	2.921	4.673	7.594
<b>160</b>	0.000	0.000	1.168	3.505	4.089
<b>165</b>	0.000	0.000	0.000	1.168	1.752
<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	447.52	N.A.	11.70
0-30	947.40	N.A.	24.80
0-40	1543.91	N.A.	40.40
0-60	2683.98	N.A.	70.20
0-80	3393.58	N.A.	88.80
0-90	3571.93	N.A.	93.50
10-90	3456.07	N.A.	90.50
20-40	1096.39	N.A.	28.70
20-50	1700.8	N.A.	44.50
40-70	1560.39	N.A.	40.80
60-80	709.61	N.A.	18.60
70-80	289.29	N.A.	7.60
80-90	178.35	N.A.	4.70
90-110	170.20	N.A.	4.50
90-120	209.22	N.A.	5.50
90-130	231.37	N.A.	6.10
90-150	247.18	N.A.	6.50
90-180	248.84	N.A.	6.50
110-180	78.64	N.A.	2.10
0-180	3820.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.86
10-20	331.65
20-30	499.88
30-40	596.51
40-50	604.41
50-60	535.66
60-70	420.32
70-80	289.29
80-90	178.35
90-100	106.19
100-110	64.01
110-120	39.02
120-130	22.15
130-140	11.19
140-150	4.62
150-160	1.45
160-170	0.21
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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**UGR TABLE - CORRECTED**

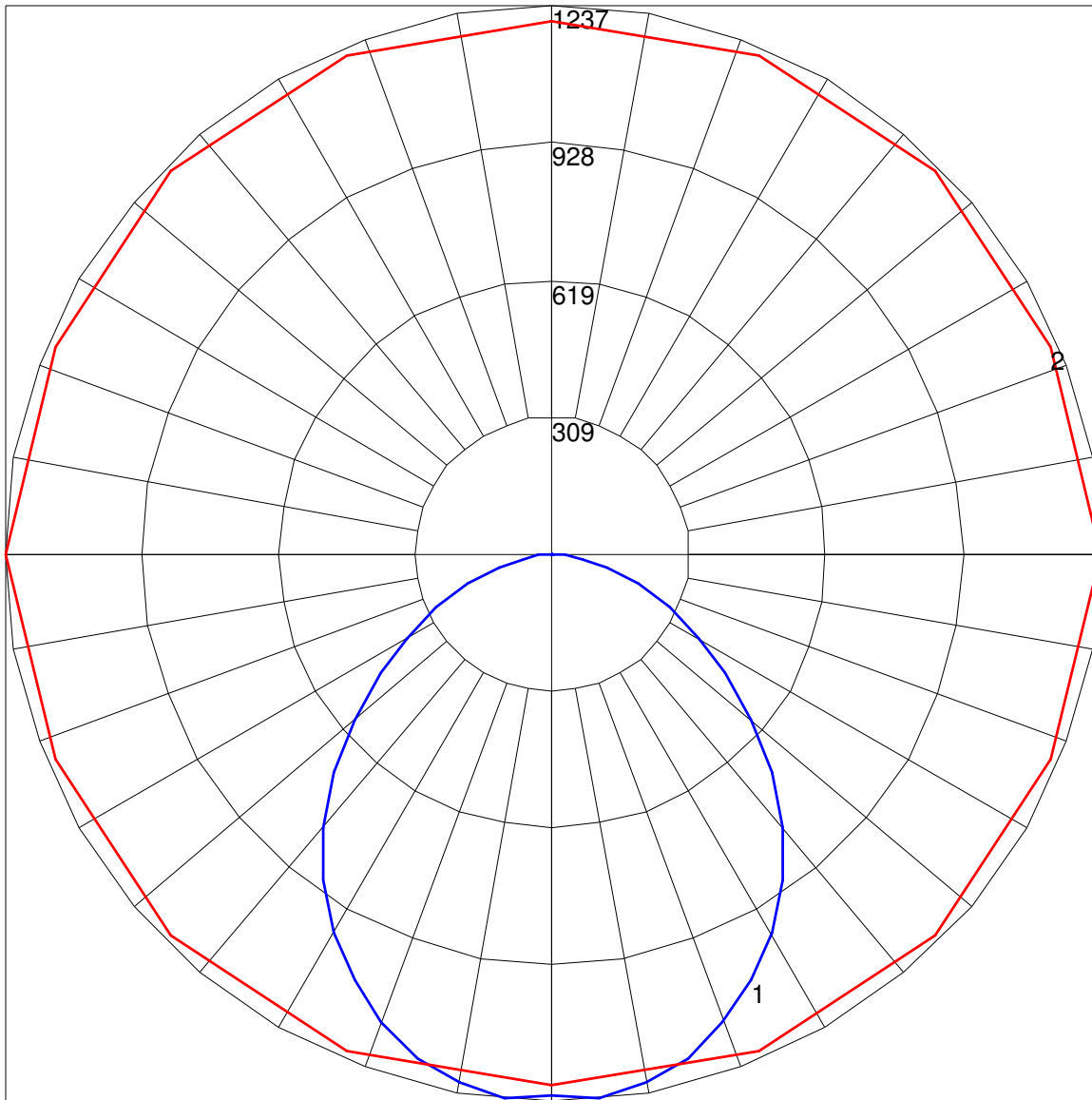
Reflectances

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	17.5	19.0	17.9	19.4	19.9	20.9	22.4	21.3	22.8	23.3
	3H	18.7	20.0	19.1	20.5	21.0	23.1	24.4	23.5	24.9	25.4
	4H	19.0	20.3	19.5	20.8	21.3	24.1	25.4	24.6	25.9	26.4
	6H	19.2	20.4	19.7	20.9	21.4	25.1	26.3	25.7	26.8	27.4
	8H	19.2	20.3	19.7	20.9	21.4	25.7	26.8	26.2	27.3	27.9
	12H	19.2	20.3	19.7	20.8	21.4	26.2	27.3	26.8	27.8	28.4
4H	2H	18.5	19.8	19.0	20.3	20.8	21.2	22.5	21.7	23.0	23.5
	3H	20.0	21.1	20.5	21.6	22.1	23.6	24.7	24.1	25.2	25.8
	4H	20.4	21.4	21.0	22.0	22.6	24.8	25.8	25.3	26.3	26.9
	6H	20.7	21.6	21.3	22.1	22.8	26.0	26.9	26.6	27.5	28.1
	8H	20.8	21.6	21.3	22.2	22.8	26.6	27.5	27.2	28.0	28.6
	12H	20.8	21.5	21.4	22.1	22.8	27.3	28.1	27.9	28.7	29.3
8H	4H	21.2	22.0	21.8	22.6	23.2	25.0	25.8	25.5	26.3	27.0
	6H	21.7	22.4	22.3	23.0	23.6	26.3	27.0	26.9	27.6	28.2
	8H	21.8	22.4	22.4	23.1	23.7	27.1	27.7	27.7	28.3	29.0
	12H	21.9	22.5	22.5	23.1	23.8	27.9	28.5	28.5	29.1	29.8
12H	4H	21.4	22.1	22.0	22.7	23.4	24.9	25.7	25.5	26.3	26.9
	6H	22.0	22.6	22.6	23.2	23.9	26.4	27.0	27.0	27.6	28.3
	8H	22.2	22.8	22.8	23.4	24.1	27.1	27.7	27.8	28.3	29.0

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1237.254 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.)