



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75L-4-L38-840-DMA-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM BALLABS TEST NO. 17957.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 15-MAR-2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMINAIRE] LENSED STRIP LED LUMINAIRE  
[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS  
[MORE] 0-10V DIMMING DRIVER  
[LUMCAT] 75L-4-L38-840-DMA-DIM-UNV  
[LAMPCAT] HLM 80 CRI 4000K CCT  
[ \_SEARCH\_SOURCETYPE]LED  
[ \_SEARCH\_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE  
[ \_SEARCH\_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	31.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25621	22795	18833
55	22206	19111	15608
65	18780	15874	12282
75	15009	12076	9057
85	10630	7941	5635

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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>	1726.968	1726.968	1726.968	1726.968	1726.968
<b>5</b>	1759.020	1725.045	1719.276	1705.173	1685.300
<b>10</b>	1731.456	1694.275	1687.224	1672.480	1647.479
<b>15</b>	1684.018	1644.274	1632.735	1612.863	1584.657
<b>20</b>	1612.863	1575.041	1552.605	1521.835	1488.500
<b>25</b>	1529.527	1491.706	1458.371	1412.857	1380.164
<b>30</b>	1424.396	1385.293	1348.112	1288.495	1242.340
<b>35</b>	1300.034	1261.571	1218.622	1151.953	1088.490
<b>40</b>	1176.313	1132.081	1075.669	999.385	916.050
<b>45</b>	1040.412	989.128	925.665	844.894	764.764
<b>50</b>	883.997	845.535	767.969	694.249	632.068
<b>55</b>	731.429	701.941	629.504	557.707	514.116
<b>60</b>	594.246	564.758	503.218	441.037	397.446
<b>65</b>	455.781	440.396	385.266	330.778	298.085
<b>70</b>	330.137	323.085	272.443	227.570	208.980
<b>75</b>	223.083	212.826	179.492	145.517	134.619
<b>80</b>	125.003	114.747	101.926	78.848	74.361
<b>85</b>	53.207	41.668	39.745	28.847	28.206
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	621.87	N.A.	15.80
0-30	1290.47	N.A.	32.80
0-40	2044.03	N.A.	51.90
0-60	3314.52	N.A.	84.20
0-80	3888.4	N.A.	98.80
0-90	3935.83	N.A.	100.00
10-90	3772.89	N.A.	95.90
20-40	1422.16	N.A.	36.10
20-50	2128.44	N.A.	54.10
40-70	1651.76	N.A.	42.00
60-80	573.88	N.A.	14.60
70-80	192.61	N.A.	4.90
80-90	47.44	N.A.	1.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3935.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.95
10-20	458.92
20-30	668.60
30-40	753.55
40-50	706.28
50-60	564.21
60-70	381.27
70-80	192.61
80-90	47.44
90-100	0.00
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	91	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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**UGR TABLE - CORRECTED**

Reflectances

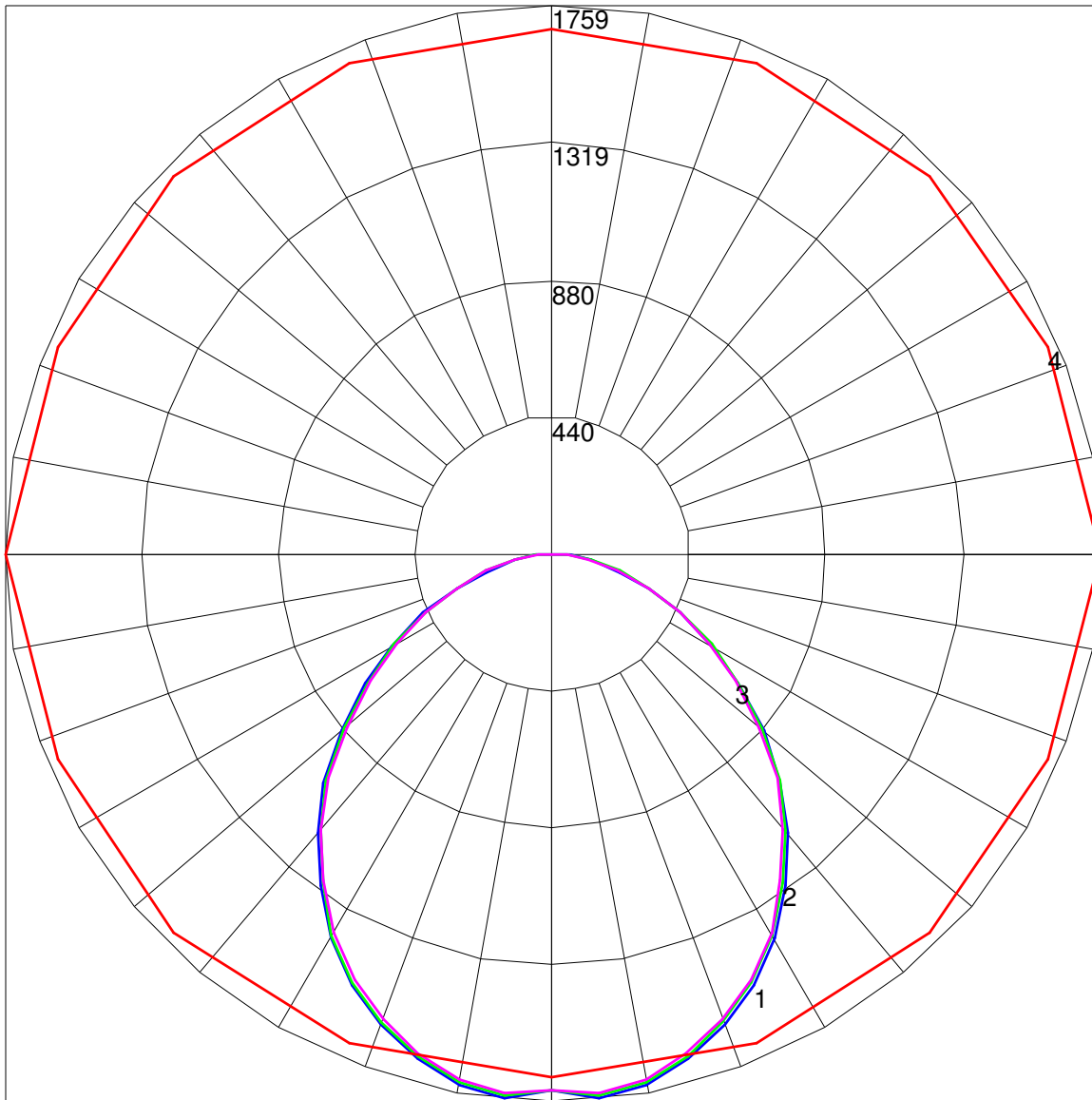
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	22.8	24.3	23.1	24.6	25.0	21.0	22.5	21.3	22.8	23.1
	3H	24.3	25.7	24.7	26.1	26.4	22.2	23.6	22.6	23.9	24.3
	4H	24.9	26.2	25.3	26.5	26.9	22.6	23.9	23.0	24.3	24.6
	6H	25.3	26.5	25.7	26.8	27.2	22.9	24.1	23.3	24.4	24.8
	8H	25.4	26.5	25.8	26.9	27.3	22.9	24.1	23.4	24.5	24.9
	12H	25.4	26.5	25.9	26.9	27.3	23.0	24.1	23.4	24.5	24.9
4H	2H	23.2	24.5	23.6	24.8	25.2	21.7	23.0	22.1	23.3	23.7
	3H	24.9	26.0	25.3	26.4	26.8	23.1	24.2	23.5	24.6	25.0
	4H	25.6	26.6	26.0	27.0	27.4	23.6	24.6	24.0	25.0	25.4
	6H	26.1	26.9	26.6	27.4	27.8	24.0	24.8	24.4	25.2	25.7
	8H	26.3	27.0	26.7	27.5	28.0	24.1	24.8	24.5	25.3	25.8
	12H	26.4	27.1	26.8	27.5	28.0	24.1	24.8	24.6	25.3	25.8
8H	4H	25.8	26.5	26.2	27.0	27.5	24.0	24.7	24.4	25.2	25.7
	6H	26.3	27.0	26.8	27.5	27.9	24.4	25.0	24.9	25.5	26.0
	8H	26.5	27.1	27.0	27.6	28.1	24.5	25.1	25.0	25.6	26.1
	12H	26.7	27.2	27.2	27.7	28.3	24.6	25.1	25.1	25.6	26.2
12H	4H	25.7	26.5	26.2	26.9	27.4	24.0	24.7	24.5	25.2	25.6
	6H	26.3	26.9	26.9	27.4	27.9	24.4	25.0	25.0	25.5	26.0
	8H	26.6	27.1	27.1	27.6	28.2	24.6	25.2	25.1	25.6	26.2

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1759.02 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)