



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN from BALLABS TEST NO. 17755.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 04-26-2024  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE  
[MORE] WHITE REFLECTOR w/FROSTED PRISMATIC LENS  
[LUMCAT] 75L-4-L50-840-AF12125-DIM-UNV  
[ \_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	6079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	42.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.71 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	40678	31452	25162
55	32570	22042	18424
65	23027	14735	15373
75	17498	11249	14373
85	17939	13300	15156

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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>	2928.932	2928.932	2928.932	2928.932	2928.932
<b>5</b>	2978.494	2925.735	2909.747	2898.556	2890.562
<b>10</b>	2940.123	2893.759	2882.568	2869.778	2855.389
<b>15</b>	2882.568	2831.408	2807.426	2821.815	2799.432
<b>20</b>	2789.840	2740.278	2719.494	2727.488	2719.494
<b>25</b>	2655.544	2617.173	2588.396	2556.420	2551.624
<b>30</b>	2508.458	2458.896	2370.964	2300.619	2251.057
<b>35</b>	2316.606	2244.662	2092.780	1912.119	1763.435
<b>40</b>	2033.625	1966.477	1704.280	1426.096	1323.775
<b>45</b>	1705.879	1664.311	1318.979	1099.948	1055.183
<b>50</b>	1394.120	1323.775	1004.023	860.134	820.165
<b>55</b>	1107.942	962.455	749.819	658.690	626.715
<b>60</b>	818.566	658.690	553.172	490.820	489.221
<b>65</b>	577.153	458.845	369.314	370.913	385.302
<b>70</b>	396.493	310.160	247.808	289.376	295.771
<b>75</b>	268.592	212.635	172.666	211.037	220.629
<b>80</b>	188.654	151.882	134.296	147.086	151.882
<b>85</b>	92.728	86.333	68.747	78.339	78.339
<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	1074.57	N.A.	17.70
0-30	2262.09	N.A.	37.20
0-40	3545.75	N.A.	58.30
0-60	5338.1	N.A.	87.80
0-80	5994.92	N.A.	98.60
0-90	6079.42	N.A.	100.00
10-90	5801.94	N.A.	95.40
20-40	2471.18	N.A.	40.60
20-50	3530.71	N.A.	58.10
40-70	2219.6	N.A.	36.50
60-80	656.82	N.A.	10.80
70-80	229.57	N.A.	3.80
80-90	84.50	N.A.	1.40
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	6079.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	277.48
10-20	797.09
20-30	1187.52
30-40	1283.66
40-50	1059.53
50-60	732.81
60-70	427.26
70-80	229.57
80-90	84.50
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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

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**UGR TABLE - CORRECTED**

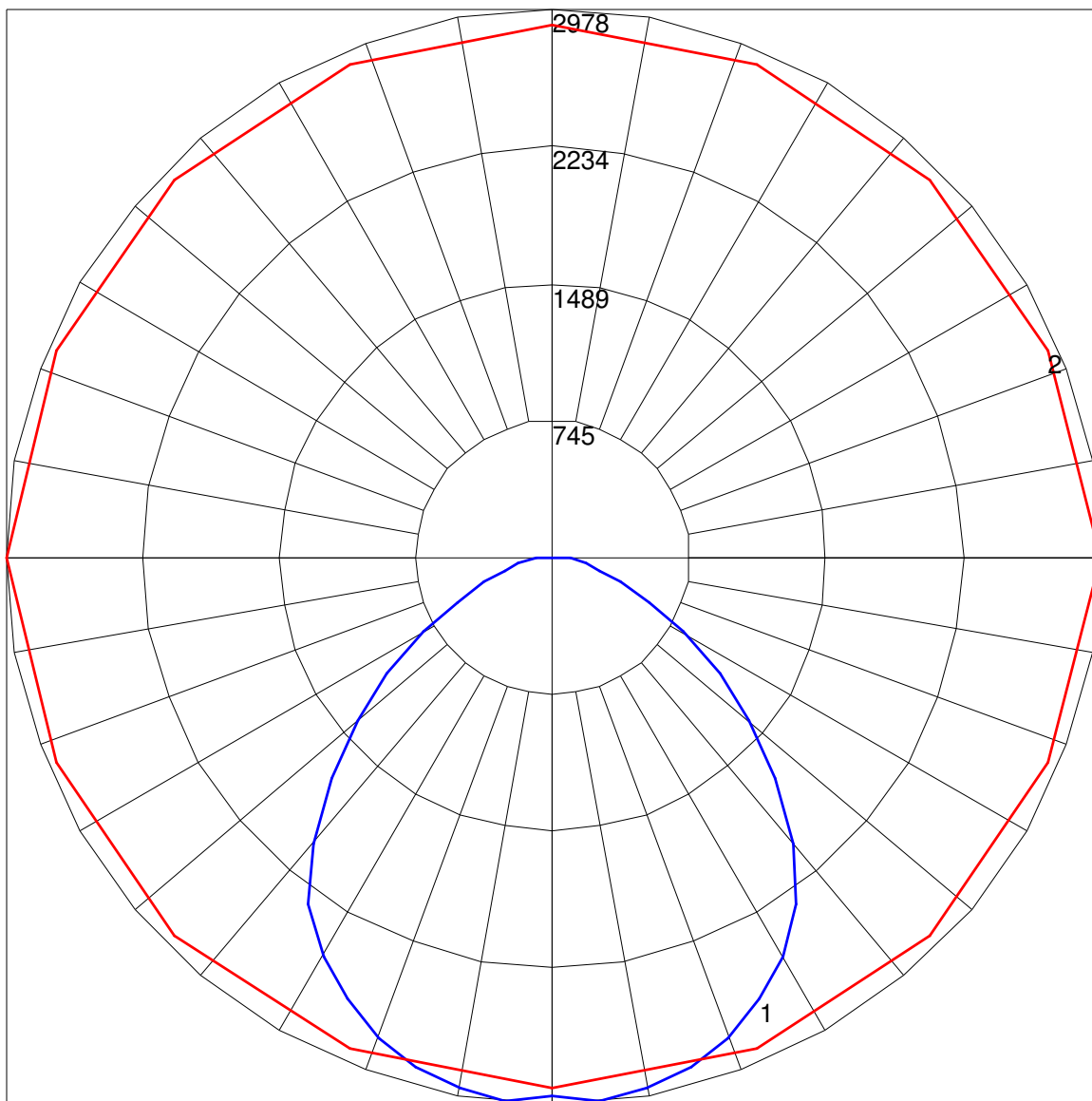
Reflectances

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	23.1	24.6	23.5	24.9	25.2	20.5	21.9	20.8	22.2	22.6
	3H	24.3	25.6	24.6	25.9	26.3	22.0	23.3	22.4	23.6	24.0
	4H	24.7	25.9	25.1	26.3	26.7	22.6	23.8	23.0	24.2	24.6
	6H	25.2	26.3	25.6	26.7	27.0	23.2	24.3	23.6	24.7	25.1
	8H	25.3	26.4	25.8	26.8	27.2	23.4	24.5	23.9	24.9	25.3
	12H	25.5	26.5	25.9	26.9	27.3	23.6	24.7	24.1	25.0	25.5
4H	2H	23.2	24.5	23.6	24.8	25.2	20.9	22.2	21.3	22.5	22.9
	3H	24.6	25.6	25.0	26.0	26.4	22.6	23.6	23.0	24.0	24.5
	4H	25.1	26.0	25.5	26.4	26.9	23.4	24.3	23.9	24.8	25.2
	6H	25.7	26.5	26.2	27.0	27.4	24.2	25.0	24.7	25.4	25.9
	8H	26.0	26.7	26.4	27.2	27.6	24.5	25.2	24.9	25.7	26.1
	12H	26.2	26.9	26.7	27.3	27.8	24.7	25.4	25.2	25.9	26.4
8H	4H	25.2	25.9	25.7	26.4	26.9	23.6	24.4	24.1	24.8	25.3
	6H	25.9	26.5	26.4	27.0	27.5	24.6	25.2	25.1	25.7	26.2
	8H	26.3	26.8	26.8	27.3	27.8	25.0	25.5	25.5	26.0	26.5
	12H	26.6	27.1	27.1	27.6	28.2	25.4	25.8	25.9	26.3	26.9
12H	4H	25.2	25.9	25.7	26.4	26.8	23.7	24.4	24.2	24.8	25.3
	6H	26.0	26.5	26.5	27.0	27.5	24.6	25.2	25.2	25.7	26.2
	8H	26.4	26.9	26.9	27.3	27.9	25.1	25.6	25.6	26.1	26.7

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2978.494 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.)