



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 11-4-L52-840-FAF12125-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18638.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 10-20-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 4' SURFACE MNT LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 11-4-L52-840-FAF12125-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] INDOOR, EDUCATION, OFFICE  
 [ \_SEARCH\_MOUNTING] SURFACE

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	42.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6852	6470	6158
55	5530	5072	4694
65	4536	4077	3879
75	3791	3556	3703
85	3927	3927	4407

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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>	2506.524	2506.524	2506.524	2506.524	2506.524
<b>5</b>	2489.959	2488.924	2484.782	2484.782	2484.782
<b>10</b>	2445.440	2443.369	2440.263	2440.263	2439.228
<b>15</b>	2328.448	2327.413	2324.307	2321.201	2318.095
<b>20</b>	2277.717	2273.576	2261.152	2255.975	2253.905
<b>25</b>	2067.546	2060.299	2045.804	2035.451	2030.274
<b>30</b>	1894.647	1884.293	1861.516	1841.845	1829.421
<b>35</b>	1722.782	1708.288	1678.263	1648.239	1633.744
<b>40</b>	1505.364	1486.728	1447.386	1402.867	1393.549
<b>45</b>	1319.005	1296.228	1245.497	1195.802	1185.448
<b>50</b>	1076.739	1052.927	1003.231	955.606	941.111
<b>55</b>	863.462	838.614	792.024	748.541	733.011
<b>60</b>	671.927	647.079	607.736	572.535	564.253
<b>65</b>	521.804	502.133	469.003	449.331	446.226
<b>70</b>	384.106	369.611	348.905	345.799	348.905
<b>75</b>	267.114	259.867	250.549	256.761	260.902
<b>80</b>	179.111	174.970	173.935	183.253	186.359
<b>85</b>	93.179	92.144	93.179	104.568	104.568
<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	896.80	N.A.	16.60
0-30	1843.84	N.A.	34.10
0-40	2886.6	N.A.	53.30
0-60	4556.8	N.A.	84.20
0-80	5309.98	N.A.	98.10
0-90	5411.56	N.A.	100.00
10-90	5175.58	N.A.	95.60
20-40	1989.79	N.A.	36.80
20-50	2943.79	N.A.	54.40
40-70	2145.7	N.A.	39.70
60-80	753.18	N.A.	13.90
70-80	277.68	N.A.	5.10
80-90	101.58	N.A.	1.90
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	5411.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	235.98
10-20	660.82
20-30	947.04
30-40	1042.75
40-50	954.00
50-60	716.20
60-70	475.50
70-80	277.68
80-90	101.58
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	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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**UGR TABLE - CORRECTED**

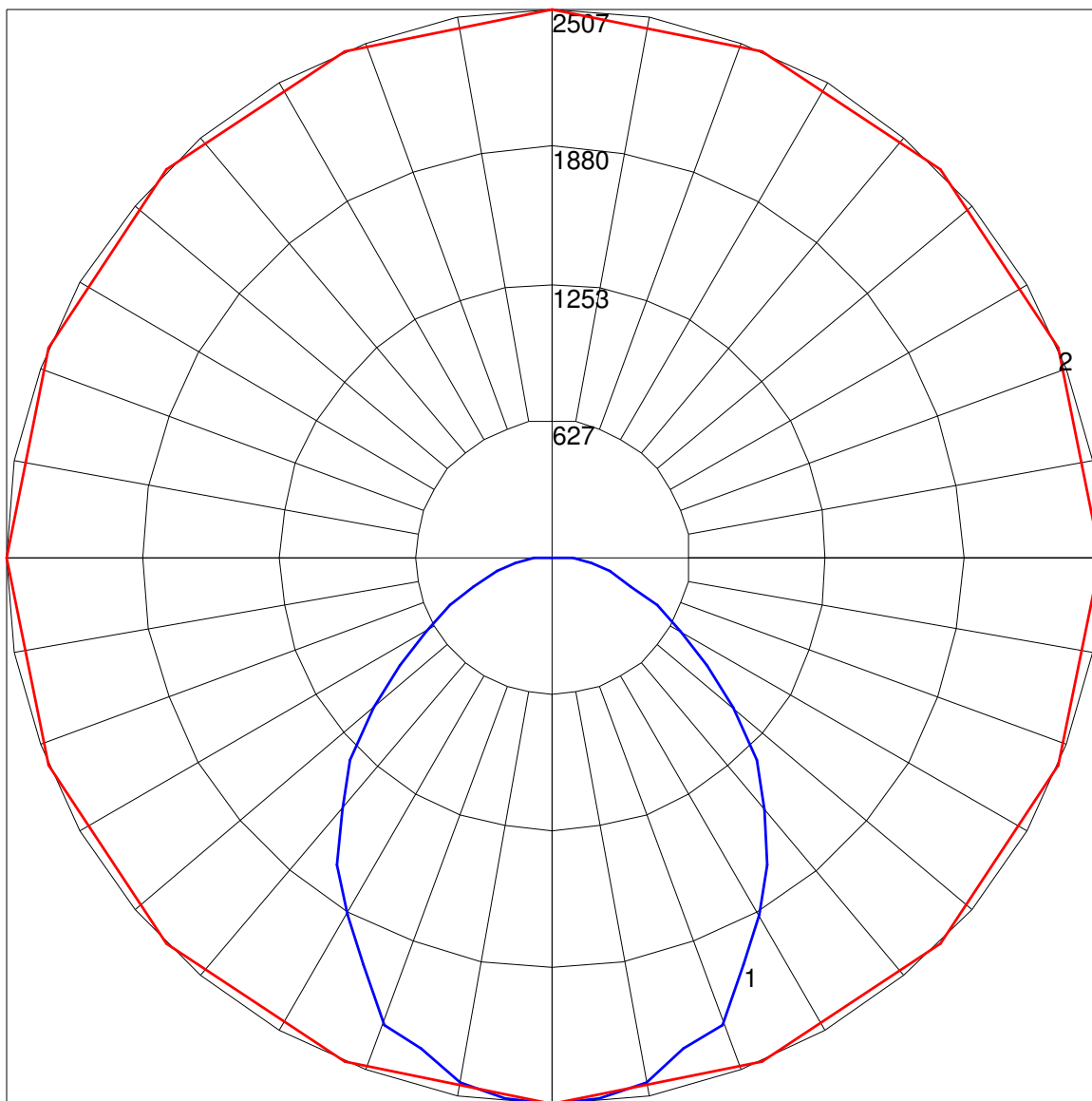
Reflectances

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	17.4	18.9	17.7	19.2	19.5	16.5	18.0	16.8	18.3	18.6
	3H	18.9	20.2	19.2	20.6	20.9	18.1	19.4	18.4	19.8	20.1
	4H	19.4	20.7	19.8	21.1	21.5	18.7	20.0	19.1	20.4	20.8
	6H	19.9	21.1	20.4	21.5	21.9	19.4	20.6	19.8	20.9	21.3
	8H	20.2	21.3	20.6	21.7	22.1	19.7	20.8	20.1	21.2	21.6
	12H	20.3	21.4	20.7	21.8	22.2	19.9	21.0	20.3	21.4	21.8
4H	2H	17.8	19.1	18.2	19.4	19.8	17.0	18.3	17.4	18.7	19.1
	3H	19.5	20.6	19.9	21.0	21.4	18.9	19.9	19.3	20.3	20.7
	4H	20.2	21.2	20.7	21.6	22.1	19.7	20.7	20.1	21.1	21.5
	6H	20.9	21.7	21.4	22.2	22.6	20.5	21.3	20.9	21.8	22.2
	8H	21.2	22.0	21.6	22.4	22.9	20.8	21.6	21.3	22.1	22.5
	12H	21.4	22.1	21.9	22.6	23.0	21.2	21.9	21.6	22.3	22.8
8H	4H	20.5	21.3	21.0	21.7	22.2	20.0	20.8	20.5	21.2	21.7
	6H	21.3	22.0	21.8	22.4	22.9	21.0	21.6	21.5	22.1	22.6
	8H	21.7	22.3	22.2	22.8	23.2	21.4	22.0	21.9	22.5	23.0
	12H	22.0	22.5	22.5	23.0	23.6	21.9	22.4	22.4	22.9	23.5
12H	4H	20.5	21.2	21.0	21.7	22.2	20.1	20.8	20.5	21.2	21.7
	6H	21.4	22.0	21.9	22.4	23.0	21.1	21.7	21.6	22.1	22.7
	8H	21.8	22.3	22.3	22.8	23.4	21.6	22.1	22.1	22.6	23.2

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 2506.524 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)