



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L49)-EM10W-DIM-UNV\_EMER MODE.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] 10-12-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 4' SURFACE MNT LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 11-4-L52-935-FAF12125-(L49)-EM10W-DIM-UNV  
 [LAMPCAT] HLM 90 CRI, 3500K 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	1000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	10
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	1266	1196	1138
55	1022	937	867
65	838	753	717
75	701	657	684
85	726	726	814

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	463.172	463.172	463.172	463.172	463.172
<b>5</b>	460.111	459.920	459.154	459.154	459.154
<b>10</b>	451.884	451.502	450.928	450.928	450.736
<b>15</b>	430.266	430.075	429.501	428.927	428.353
<b>20</b>	420.891	420.126	417.830	416.874	416.491
<b>25</b>	382.055	380.715	378.037	376.124	375.167
<b>30</b>	350.105	348.192	343.983	340.348	338.052
<b>35</b>	318.347	315.669	310.120	304.572	301.894
<b>40</b>	278.171	274.727	267.457	259.231	257.509
<b>45</b>	243.734	239.525	230.151	220.968	219.055
<b>50</b>	198.967	194.567	185.384	176.583	173.905
<b>55</b>	159.556	154.965	146.355	138.320	135.451
<b>60</b>	124.163	119.571	112.301	105.797	104.266
<b>65</b>	96.422	92.787	86.665	83.030	82.456
<b>70</b>	70.978	68.299	64.473	63.899	64.473
<b>75</b>	49.359	48.020	46.298	47.446	48.211
<b>80</b>	33.097	32.332	32.141	33.863	34.437
<b>85</b>	17.218	17.027	17.218	19.323	19.323
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L49)-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	165.72	N.A.	16.60
0-30	340.72	N.A.	34.10
0-40	533.40	N.A.	53.30
0-60	842.03	N.A.	84.20
0-80	981.21	N.A.	98.10
0-90	999.98	N.A.	100.00
10-90	956.38	N.A.	95.60
20-40	367.69	N.A.	36.80
20-50	543.97	N.A.	54.40
40-70	396.50	N.A.	39.70
60-80	139.18	N.A.	13.90
70-80	51.31	N.A.	5.10
80-90	18.77	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	999.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.61
10-20	122.11
20-30	175.00
30-40	192.69
40-50	176.29
50-60	132.34
60-70	87.87
70-80	51.31
80-90	18.77
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

X=2H	Y=2H	11.5	13.0	11.8	13.3	13.6	10.6	12.1	10.9	12.4	12.7
	3H	13.0	14.3	13.3	14.7	15.0	12.2	13.5	12.5	13.9	14.2
	4H	13.5	14.8	13.9	15.2	15.6	12.8	14.1	13.2	14.5	14.9
	6H	14.0	15.2	14.5	15.6	16.0	13.5	14.7	13.9	15.0	15.4
	8H	14.3	15.4	14.7	15.8	16.2	13.8	14.9	14.2	15.3	15.7
	12H	14.4	15.5	14.8	15.9	16.3	14.0	15.1	14.4	15.5	15.9

### UGR Viewed Endwise

4H	2H	11.9	13.2	12.3	13.5	13.9	11.1	12.4	11.5	12.8	13.2
	3H	13.6	14.7	14.0	15.1	15.5	13.0	14.0	13.4	14.4	14.8
	4H	14.3	15.3	14.8	15.7	16.2	13.8	14.8	14.2	15.2	15.6
	6H	15.0	15.8	15.5	16.3	16.7	14.6	15.4	15.0	15.9	16.3
	8H	15.3	16.1	15.7	16.5	17.0	14.9	15.7	15.4	16.2	16.6
	12H	15.5	16.2	16.0	16.7	17.2	15.3	16.0	15.7	16.4	16.9

8H	4H	14.6	15.4	15.1	15.8	16.3	14.1	14.9	14.6	15.3	15.8
	6H	15.4	16.1	15.9	16.5	17.0	15.1	15.7	15.6	16.2	16.7
	8H	15.8	16.4	16.3	16.9	17.3	15.5	16.1	16.0	16.6	17.1
	12H	16.1	16.6	16.6	17.1	17.7	16.0	16.5	16.5	17.0	17.6

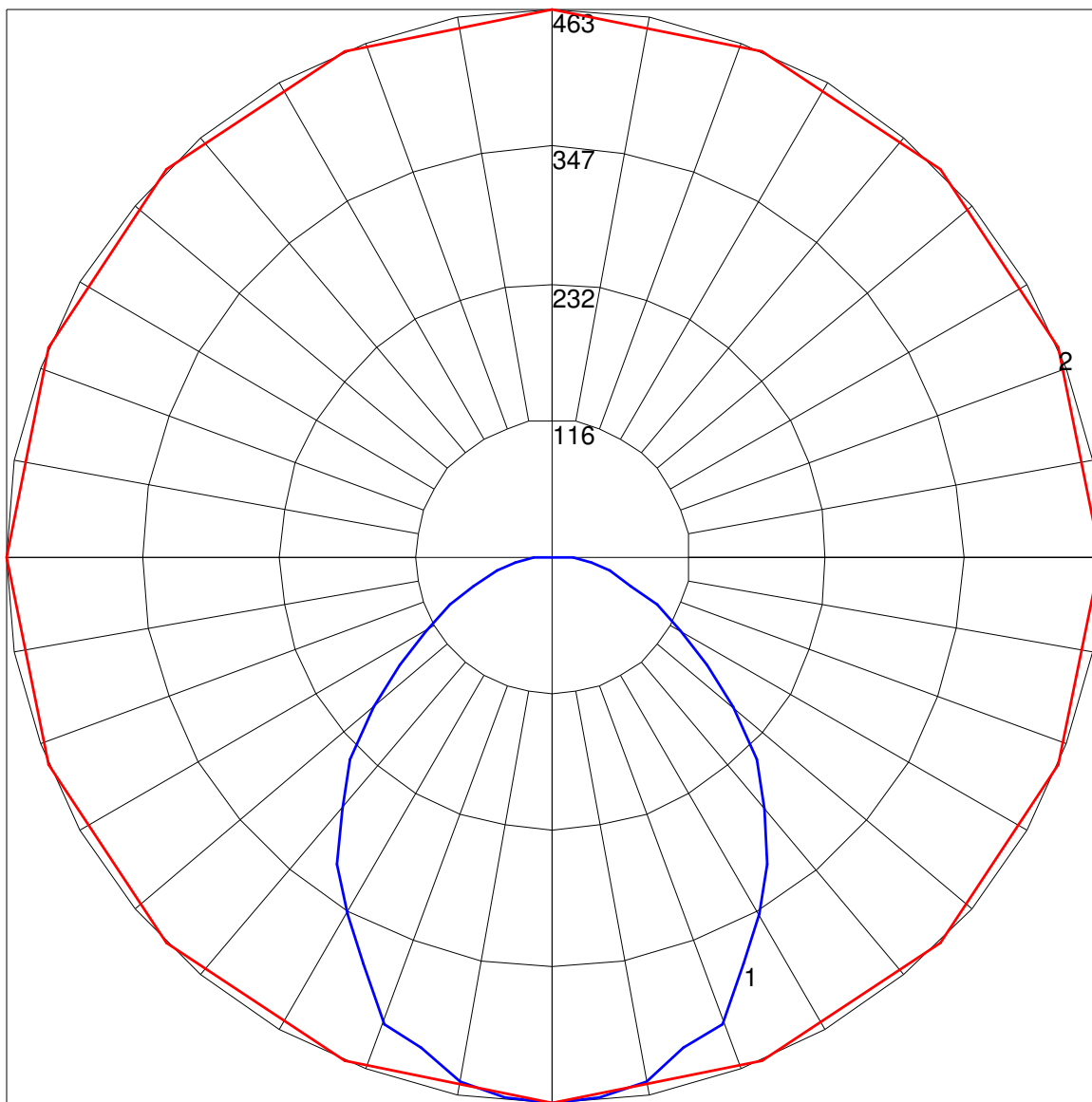
12H	4H	14.6	15.3	15.1	15.8	16.3	14.2	14.9	14.6	15.3	15.8
	6H	15.5	16.1	16.0	16.5	17.1	15.2	15.8	15.7	16.2	16.8
	8H	15.9	16.4	16.4	16.9	17.5	15.7	16.2	16.2	16.7	17.3

Maximum UGR = 17.7

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## POLAR GRAPH



Maximum Candela = 463.172 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.)