



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L35)-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-(L35)-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	930
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	1178	1112	1058
55	950	872	807
65	779	701	667
75	652	611	636
85	675	675	757

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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>	430.750	430.750	430.750	430.750	430.750
<b>5</b>	427.903	427.725	427.014	427.014	427.014
<b>10</b>	420.252	419.897	419.363	419.363	419.185
<b>15</b>	400.147	399.969	399.436	398.902	398.368
<b>20</b>	391.429	390.717	388.582	387.693	387.337
<b>25</b>	355.311	354.065	351.574	349.795	348.906
<b>30</b>	325.598	323.819	319.904	316.524	314.389
<b>35</b>	296.063	293.572	288.412	283.252	280.761
<b>40</b>	258.699	255.496	248.735	241.085	239.483
<b>45</b>	226.673	222.759	214.041	205.500	203.721
<b>50</b>	185.039	180.947	172.407	164.222	161.731
<b>55</b>	148.387	144.117	136.111	128.638	125.969
<b>60</b>	115.472	111.201	104.440	98.391	96.968
<b>65</b>	89.673	86.292	80.599	77.218	76.685
<b>70</b>	66.009	63.518	59.960	59.426	59.960
<b>75</b>	45.904	44.658	43.057	44.125	44.836
<b>80</b>	30.781	30.069	29.891	31.492	32.026
<b>85</b>	16.013	15.835	16.013	17.970	17.970
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L35)-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	154.12	N.A.	16.60
0-30	316.87	N.A.	34.10
0-40	496.07	N.A.	53.30
0-60	783.09	N.A.	84.20
0-80	912.53	N.A.	98.10
0-90	929.98	N.A.	100.00
10-90	889.43	N.A.	95.60
20-40	341.95	N.A.	36.80
20-50	505.89	N.A.	54.40
40-70	368.74	N.A.	39.70
60-80	129.44	N.A.	13.90
70-80	47.72	N.A.	5.10
80-90	17.46	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	929.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.55
10-20	113.56
20-30	162.75
30-40	179.20
40-50	163.95
50-60	123.08
60-70	81.72
70-80	47.72
80-90	17.46
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	11.2	12.7	11.5	13.0	13.3	10.3	11.8	10.6	12.1	12.4
	3H	12.7	14.0	13.0	14.4	14.7	11.9	13.2	12.2	13.6	13.9
	4H	13.2	14.5	13.6	14.9	15.3	12.5	13.8	12.9	14.2	14.6
	6H	13.7	14.9	14.2	15.3	15.7	13.2	14.4	13.6	14.7	15.1
	8H	14.0	15.1	14.4	15.5	15.9	13.5	14.6	13.9	15.0	15.4
	12H	14.1	15.2	14.5	15.6	16.0	13.7	14.8	14.1	15.2	15.6

### UGR Viewed Endwise

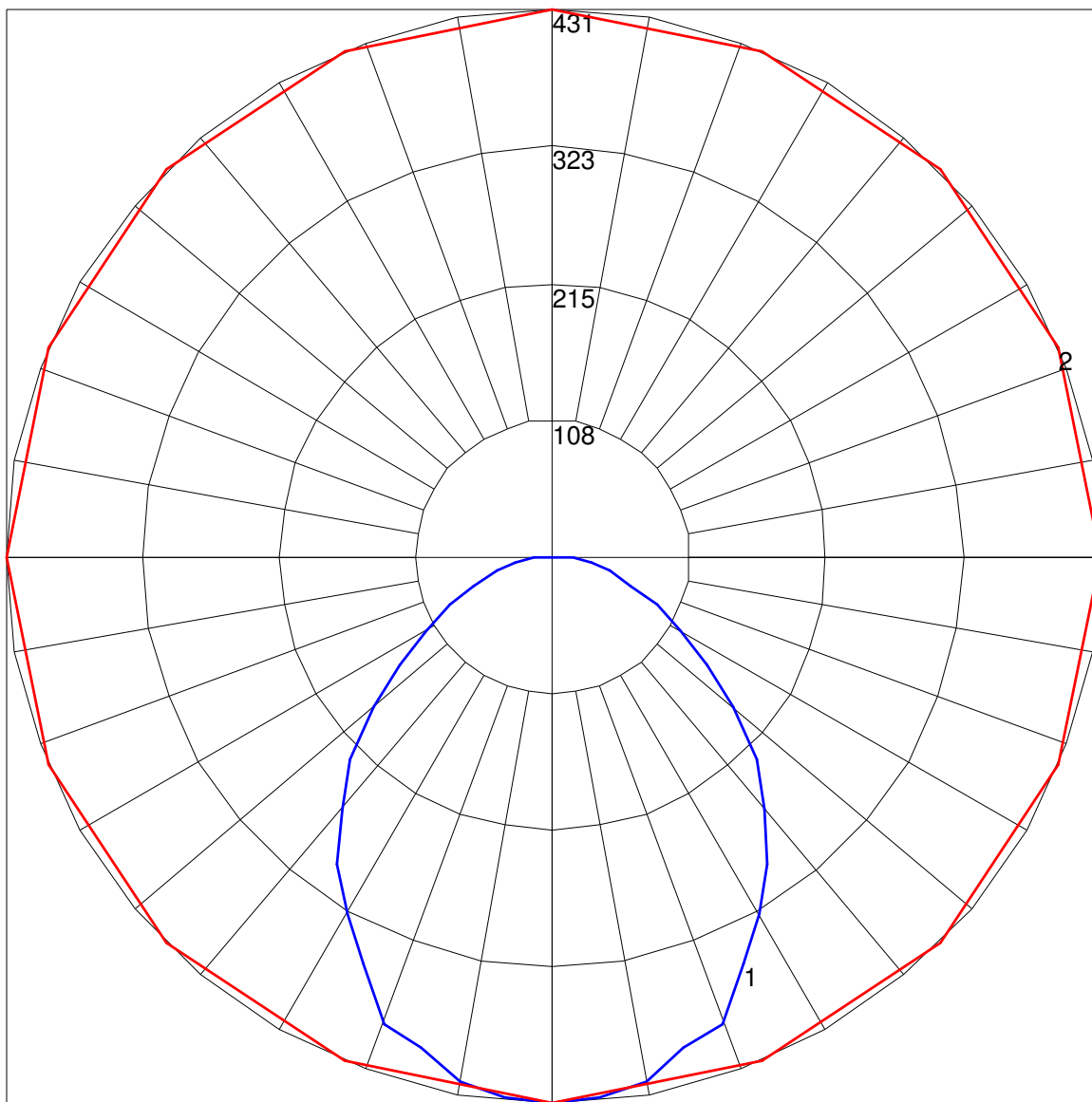
4H	2H	11.6	12.9	12.0	13.2	13.6	10.8	12.1	11.2	12.5	12.9
	3H	13.3	14.4	13.7	14.8	15.2	12.7	13.7	13.1	14.1	14.5
	4H	14.0	15.0	14.5	15.4	15.9	13.5	14.5	13.9	14.9	15.3
	6H	14.7	15.5	15.2	16.0	16.4	14.3	15.1	14.7	15.6	16.0
	8H	15.0	15.8	15.4	16.2	16.7	14.6	15.4	15.1	15.9	16.3
	12H	15.2	15.9	15.7	16.4	16.9	15.0	15.7	15.4	16.1	16.6
8H	4H	14.3	15.1	14.8	15.5	16.0	13.8	14.6	14.3	15.0	15.5
	6H	15.1	15.8	15.6	16.2	16.7	14.8	15.4	15.3	15.9	16.4
	8H	15.5	16.1	16.0	16.6	17.0	15.2	15.8	15.7	16.3	16.8
	12H	15.8	16.3	16.3	16.8	17.4	15.7	16.2	16.2	16.7	17.3
12H	4H	14.3	15.0	14.8	15.5	16.0	13.9	14.6	14.3	15.0	15.5
	6H	15.2	15.8	15.7	16.2	16.8	14.9	15.5	15.4	15.9	16.5
	8H	15.6	16.1	16.1	16.6	17.2	15.4	15.9	15.9	16.4	17.0

Maximum UGR = 17.4

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## POLAR GRAPH



Maximum Candela = 430.75 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.)