



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-L43-935-FAF12125-(L27)-EM10W-DIM-UNV\_EMER MODE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18637.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 10-12-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2' SURFACE MOUNT LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 12-2-L43-935-FAF12125-(L27)-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	1073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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)	1.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1216	1188	1175
55	1016	977	960
65	840	804	797
75	713	698	742
85	741	751	872

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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>	490.321	490.321	490.321	490.321	490.321
<b>5</b>	478.729	478.729	478.092	477.837	478.092
<b>10</b>	471.086	470.449	470.194	470.449	470.194
<b>15</b>	448.156	447.519	447.009	447.009	447.009
<b>20</b>	436.563	435.162	435.162	434.780	434.015
<b>25</b>	400.002	399.748	398.601	398.092	398.601
<b>30</b>	364.333	363.824	362.423	361.531	361.786
<b>35</b>	328.792	327.645	325.607	324.715	324.715
<b>40</b>	289.938	288.027	285.225	282.677	282.677
<b>45</b>	249.173	247.263	243.568	240.766	240.766
<b>50</b>	206.498	204.587	200.893	198.090	198.090
<b>55</b>	168.918	166.116	162.421	159.237	159.619
<b>60</b>	133.504	130.701	127.644	125.606	125.861
<b>65</b>	102.931	100.383	98.472	97.580	97.580
<b>70</b>	77.835	75.797	74.141	75.287	76.434
<b>75</b>	53.504	52.357	52.357	54.013	55.669
<b>80</b>	35.669	35.669	35.669	37.962	39.618
<b>85</b>	18.726	18.726	18.981	21.529	22.038
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 12-2-L43-935-FAF12125-(L27)-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	172.68	N.A.	16.10
0-30	356.54	N.A.	33.20
0-40	560.05	N.A.	52.20
0-60	894.78	N.A.	83.40
0-80	1052.15	N.A.	98.10
0-90	1072.99	N.A.	100.00
10-90	1027.47	N.A.	95.80
20-40	387.37	N.A.	36.10
20-50	575.49	N.A.	53.60
40-70	434.31	N.A.	40.50
60-80	157.37	N.A.	14.70
70-80	57.80	N.A.	5.40
80-90	20.84	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	1072.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.52
10-20	127.16
20-30	183.86
30-40	203.51
40-50	188.12
50-60	146.61
60-70	99.58
70-80	57.80
80-90	20.84
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	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	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	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

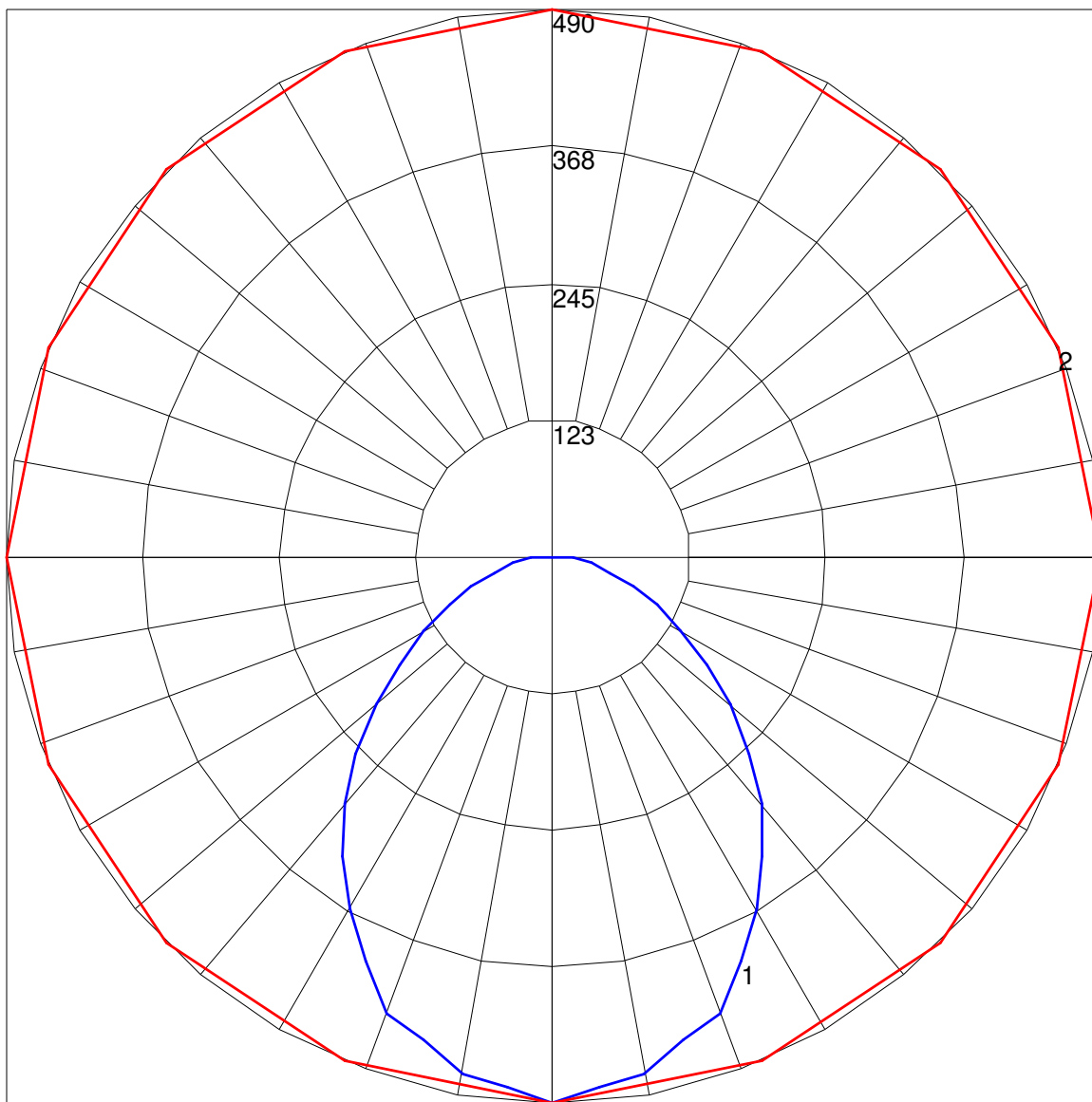
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.5	13.0	11.8	13.3	13.6	11.2	12.7	11.5	13.0	13.3
	3H	13.0	14.4	13.4	14.7	15.1	12.8	14.2	13.2	14.5	14.8
	4H	13.6	14.9	14.0	15.2	15.6	13.4	14.7	13.8	15.1	15.5
	6H	14.1	15.3	14.5	15.7	16.1	14.0	15.2	14.4	15.6	16.0
	8H	14.3	15.4	14.7	15.8	16.2	14.3	15.4	14.7	15.8	16.2
	12H	14.4	15.6	14.9	15.9	16.4	14.5	15.6	14.9	16.0	16.4
4H	2H	11.9	13.2	12.3	13.6	14.0	11.7	13.0	12.1	13.3	13.7
	3H	13.7	14.8	14.1	15.2	15.6	13.5	14.6	13.9	15.0	15.4
	4H	14.4	15.4	14.9	15.8	16.3	14.3	15.3	14.8	15.7	16.2
	6H	15.1	15.9	15.5	16.4	16.8	15.1	16.0	15.5	16.4	16.9
	8H	15.3	16.2	15.8	16.6	17.1	15.4	16.2	15.9	16.7	17.1
	12H	15.6	16.3	16.1	16.8	17.2	15.7	16.5	16.2	16.9	17.4
8H	4H	14.7	15.5	15.2	16.0	16.4	14.6	15.4	15.1	15.9	16.3
	6H	15.5	16.2	16.0	16.7	17.2	15.6	16.2	16.1	16.7	17.2
	8H	15.9	16.5	16.4	17.0	17.5	16.0	16.6	16.5	17.1	17.6
	12H	16.2	16.7	16.7	17.2	17.8	16.4	16.9	16.9	17.4	18.0
12H	4H	14.7	15.5	15.2	16.0	16.4	14.7	15.4	15.1	15.9	16.3
	6H	15.6	16.2	16.1	16.7	17.2	15.6	16.2	16.2	16.7	17.2
	8H	16.0	16.6	16.5	17.0	17.6	16.1	16.7	16.6	17.1	17.7

Maximum UGR = 18.0

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## POLAR GRAPH



Maximum Candela = 490.321 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.)