



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L84-935-FAF12125-(L71)-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 LABORATORIE, INC

[ISSUEDATE] 10-12-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-72LED 22"ARRAYS 2x4'WHITE REFL SURFACE MOUNT LUMINAIRE

[MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)

[LUMCAT] 12-4-L84-935-FAF12125-(L71)-EM10W-DIM-UNV

[LAMPCAT] HLM 90 CRI 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] INDOOR

[\_SEARCH\_MOUNTING] SURFACE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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)	3.77 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	563	551	544
55	471	453	445
65	389	372	369
75	330	323	344
85	343	348	404

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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>	486.117	486.117	486.117	486.117	486.117
<b>5</b>	474.624	474.624	473.993	473.740	473.993
<b>10</b>	467.046	466.415	466.162	466.415	466.162
<b>15</b>	444.313	443.681	443.176	443.176	443.176
<b>20</b>	432.820	431.431	431.431	431.052	430.294
<b>25</b>	396.573	396.320	395.183	394.678	395.183
<b>30</b>	361.209	360.704	359.315	358.431	358.683
<b>35</b>	325.973	324.836	322.815	321.931	321.931
<b>40</b>	287.452	285.558	282.779	280.253	280.253
<b>45</b>	247.037	245.142	241.480	238.701	238.701
<b>50</b>	204.727	202.833	199.170	196.392	196.392
<b>55</b>	167.470	164.691	161.029	157.871	158.250
<b>60</b>	132.359	129.581	126.550	124.529	124.781
<b>65</b>	102.048	99.522	97.628	96.743	96.743
<b>70</b>	77.167	75.147	73.505	74.642	75.778
<b>75</b>	53.045	51.908	51.908	53.550	55.192
<b>80</b>	35.363	35.363	35.363	37.637	39.278
<b>85</b>	18.566	18.566	18.818	21.344	21.849
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 12-4-L84-935-FAF12125-(L71)-EM10W-DIM-UNV\_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	171.19	N.A.	16.10
0-30	353.48	N.A.	33.20
0-40	555.24	N.A.	52.20
0-60	887.10	N.A.	83.40
0-80	1043.13	N.A.	98.10
0-90	1063.79	N.A.	100.00
10-90	1018.66	N.A.	95.80
20-40	384.05	N.A.	36.10
20-50	570.55	N.A.	53.60
40-70	430.58	N.A.	40.50
60-80	156.02	N.A.	14.70
70-80	57.30	N.A.	5.40
80-90	20.66	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	1063.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.13
10-20	126.07
20-30	182.28
30-40	201.76
40-50	186.51
50-60	145.35
60-70	98.72
70-80	57.30
80-90	20.66
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	98	95	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	72
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	72	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

X=2H	Y=2H	8.8	10.4	9.2	10.7	11.0	8.5	10.1	8.9	10.4	10.7
	3H	10.4	11.8	10.7	12.1	12.4	10.1	11.5	10.5	11.8	12.2
	4H	10.9	12.3	11.3	12.6	13.0	10.8	12.1	11.2	12.4	12.8
	6H	11.4	12.7	11.9	13.0	13.4	11.4	12.6	11.8	13.0	13.4
	8H	11.7	12.8	12.1	13.2	13.6	11.7	12.8	12.1	13.2	13.6
	12H	11.8	12.9	12.2	13.3	13.7	11.9	13.0	12.3	13.4	13.8

### UGR Viewed Endwise

4H	2H	9.3	10.6	9.7	11.0	11.3	9.0	10.4	9.4	10.7	11.1
	3H	11.1	12.2	11.5	12.6	13.0	10.9	12.0	11.3	12.4	12.8
	4H	11.8	12.8	12.2	13.2	13.6	11.7	12.7	12.1	13.1	13.5
	6H	12.4	13.3	12.9	13.7	14.2	12.4	13.3	12.9	13.8	14.2
	8H	12.7	13.5	13.2	14.0	14.4	12.8	13.6	13.2	14.0	14.5
	12H	12.9	13.7	13.4	14.1	14.6	13.1	13.8	13.6	14.3	14.8

8H	4H	12.1	12.9	12.5	13.3	13.8	12.0	12.8	12.4	13.2	13.7
	6H	12.9	13.5	13.4	14.0	14.5	12.9	13.6	13.4	14.1	14.5
	8H	13.2	13.8	13.7	14.3	14.8	13.3	13.9	13.9	14.5	14.9
	12H	13.6	14.1	14.1	14.6	15.2	13.8	14.3	14.3	14.8	15.4

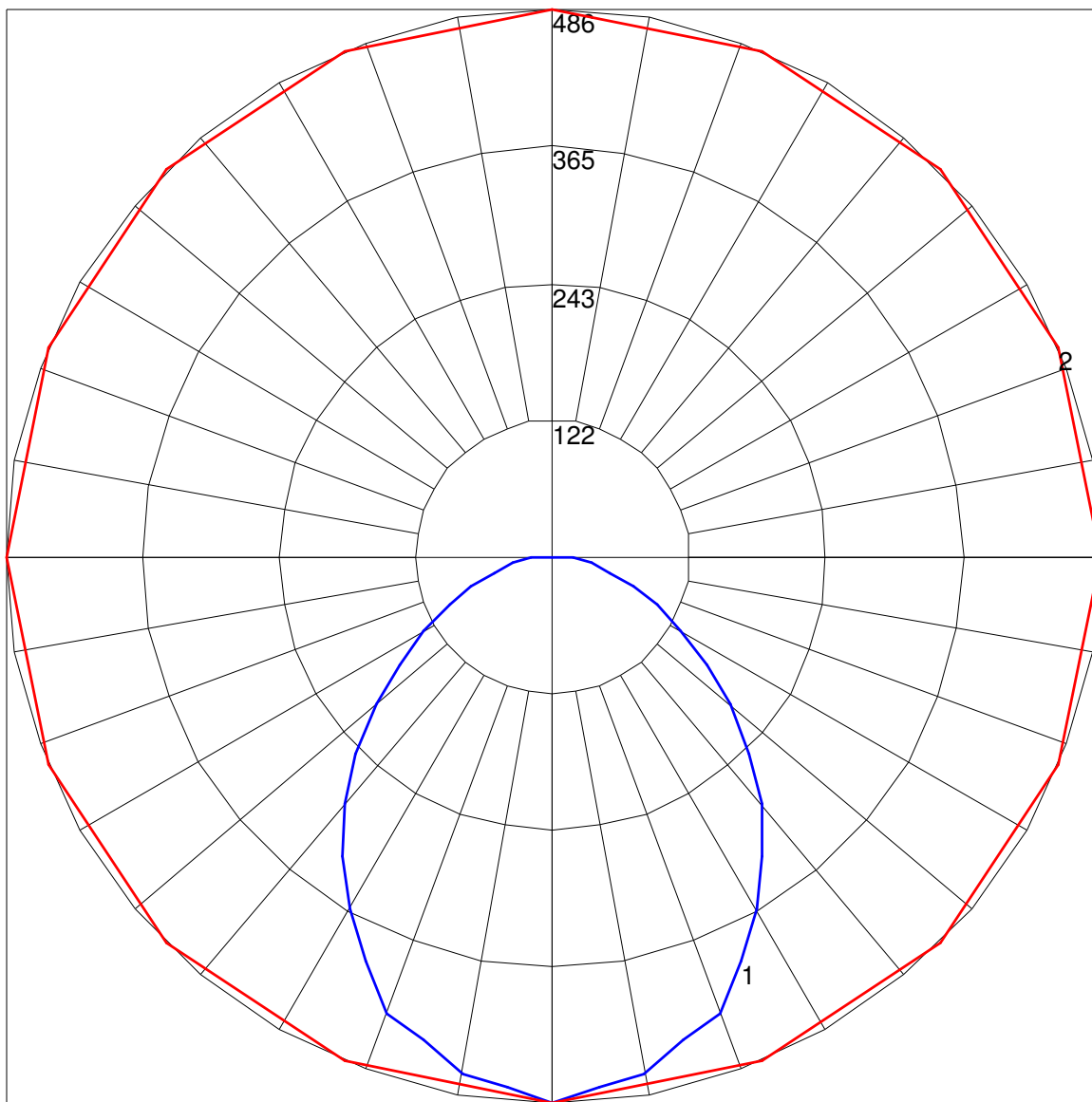
12H	4H	12.1	12.8	12.6	13.3	13.8	12.0	12.7	12.5	13.2	13.7
	6H	13.0	13.6	13.5	14.0	14.6	13.0	13.6	13.5	14.0	14.6
	8H	13.4	13.9	13.9	14.4	15.0	13.5	14.0	14.0	14.5	15.1

Maximum UGR = 15.4

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## POLAR GRAPH



Maximum Candela = 486.117 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.)