



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-4-L84-935-FAF12125-(L38)-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-(L38)-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	1134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	601	587	580
55	502	483	474
65	415	397	394
75	352	345	367
85	366	371	431

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	518.333	518.333	518.333	518.333	518.333
5	506.079	506.079	505.405	505.136	505.405
10	497.999	497.325	497.056	497.325	497.056
15	473.758	473.085	472.546	472.546	472.546
20	461.504	460.022	460.022	459.618	458.810
25	422.854	422.585	421.373	420.834	421.373
30	385.148	384.609	383.128	382.185	382.454
35	347.576	346.364	344.209	343.266	343.266
40	306.502	304.482	301.519	298.826	298.826
45	263.409	261.389	257.483	254.521	254.521
50	218.295	216.275	212.370	209.407	209.407
55	178.568	175.606	171.700	168.334	168.738
60	141.131	138.168	134.936	132.782	133.051
65	108.811	106.118	104.098	103.155	103.155
70	82.282	80.127	78.376	79.588	80.800
75	56.560	55.348	55.348	57.099	58.849
80	37.707	37.707	37.707	40.131	41.881
85	19.796	19.796	20.065	22.759	23.297
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	182.54	N.A.	16.10
0-30	376.91	N.A.	33.20
0-40	592.04	N.A.	52.20
0-60	945.89	N.A.	83.40
0-80	1112.26	N.A.	98.10
0-90	1134.29	N.A.	100.00
10-90	1086.17	N.A.	95.80
20-40	409.50	N.A.	36.10
20-50	608.37	N.A.	53.60
40-70	459.12	N.A.	40.50
60-80	166.36	N.A.	14.70
70-80	61.10	N.A.	5.40
80-90	22.03	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	1134.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.12
10-20	134.42
20-30	194.37
30-40	215.13
40-50	198.87
50-60	154.99
60-70	105.27
70-80	61.10
80-90	22.03
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	66	73	68	64	62
4	85	74	65	59	83	72	65	59	70	63	58	68	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	53	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	9.0	10.6	9.4	10.9	11.2	8.7	10.3	9.1	10.6	10.9
	3H	10.6	12.0	11.0	12.3	12.7	10.3	11.7	10.7	12.0	12.4
	4H	11.2	12.5	11.6	12.8	13.2	11.0	12.3	11.4	12.6	13.0
	6H	11.6	12.9	12.1	13.2	13.6	11.6	12.8	12.0	13.2	13.6
	8H	11.9	13.0	12.3	13.4	13.8	11.9	13.0	12.3	13.4	13.8
	12H	12.0	13.1	12.4	13.5	13.9	12.1	13.2	12.5	13.6	14.0

UGR Viewed Endwise

4H	2H	9.5	10.8	9.9	11.2	11.5	9.3	10.6	9.7	10.9	11.3
	3H	11.3	12.4	11.7	12.8	13.2	11.1	12.2	11.5	12.6	13.0
	4H	12.0	13.0	12.4	13.4	13.8	11.9	12.9	12.3	13.3	13.7
	6H	12.6	13.5	13.1	13.9	14.4	12.6	13.5	13.1	14.0	14.4
	8H	12.9	13.7	13.4	14.2	14.6	13.0	13.8	13.4	14.2	14.7
	12H	13.1	13.9	13.6	14.3	14.8	13.3	14.0	13.8	14.5	15.0

8H	4H	12.3	13.1	12.7	13.5	14.0	12.2	13.0	12.6	13.4	13.9
	6H	13.1	13.7	13.6	14.2	14.7	13.1	13.8	13.6	14.3	14.7
	8H	13.4	14.0	14.0	14.5	15.0	13.5	14.1	14.1	14.7	15.1
	12H	13.8	14.3	14.3	14.8	15.4	14.0	14.5	14.5	15.0	15.6

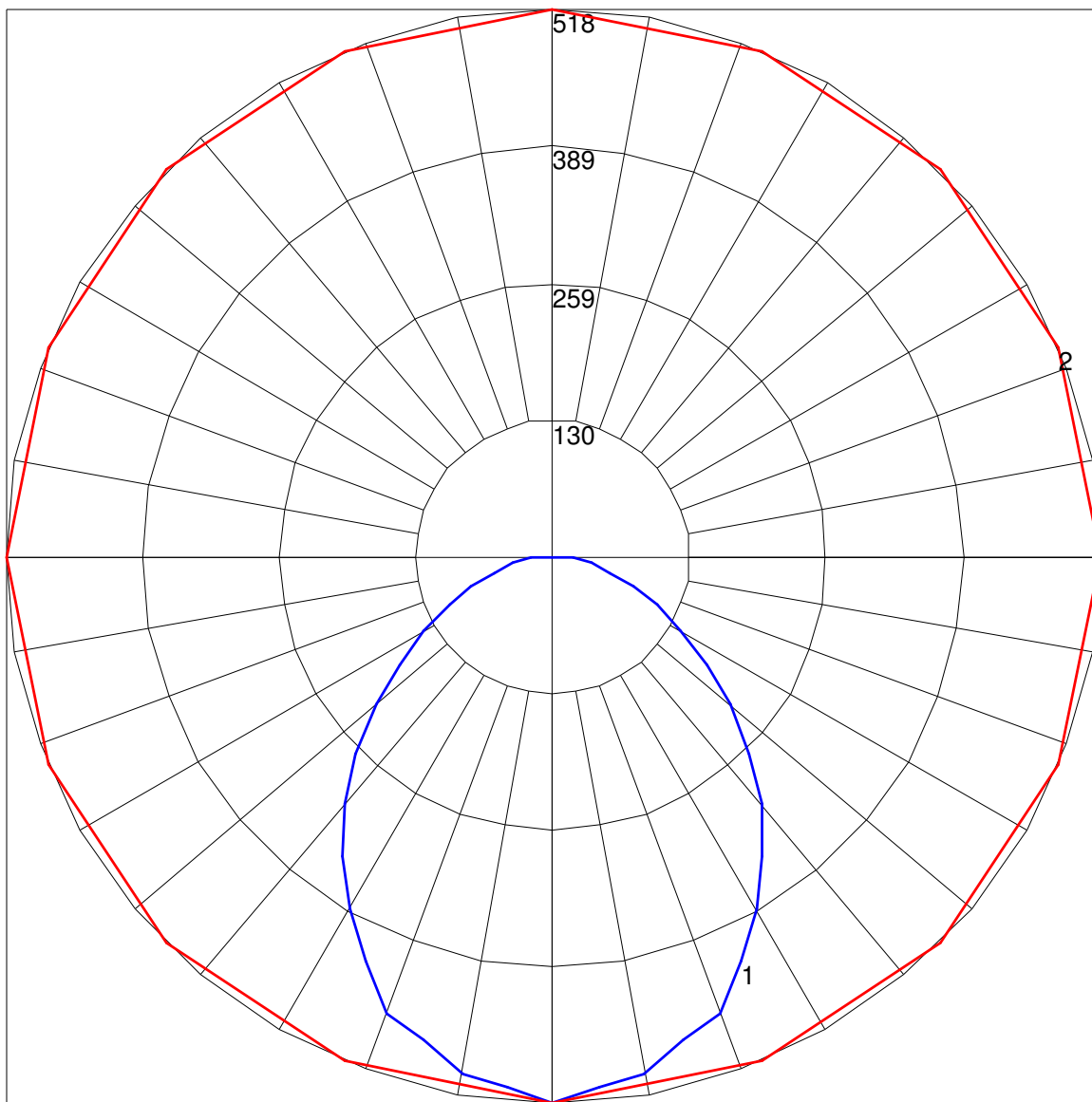
12H	4H	12.3	13.0	12.8	13.5	14.0	12.2	12.9	12.7	13.4	13.9
	6H	13.2	13.8	13.7	14.2	14.8	13.2	13.8	13.7	14.3	14.8
	8H	13.6	14.1	14.1	14.6	15.2	13.7	14.2	14.2	14.7	15.3

Maximum UGR = 15.6

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POLAR GRAPH



Maximum Candela = 518.333 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.)