



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-AR-22-L39-940-AF-(L33)-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18664.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 31-MAR-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/CENTER FROSTED ACRYLIC LENS
 [MORE] EVERLINE LED DRIVER #D10CC55UNVT-C (81 ZH1)
 [LUMCAT] LT-AR-22-L39-940-AF-(L33)-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.96 ft
Luminous Width (90-270)	1.90 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	935	1046	1140
55	832	1005	1153
65	720	1003	1231
75	593	1060	1410
85	355	997	1041

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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	392.667	392.667	392.667	392.667	392.667
5	393.667	391.333	390.333	390.000	389.667
10	386.333	385.000	385.333	385.333	386.000
15	375.667	374.667	377.667	377.667	379.000
20	359.333	359.333	366.000	367.000	368.667
25	339.333	341.333	349.333	352.000	355.000
30	317.333	320.000	329.000	334.333	340.667
35	289.667	294.667	305.333	316.000	322.333
40	260.000	265.000	281.000	295.667	301.000
45	228.333	236.333	255.333	272.000	278.333
50	195.667	207.667	227.000	245.667	254.000
55	164.667	177.333	199.000	219.333	228.333
60	135.000	147.667	171.667	194.333	203.000
65	105.000	119.333	146.333	170.333	179.667
70	76.667	90.667	121.000	147.000	154.667
75	53.000	66.333	94.667	120.000	126.000
80	31.333	43.000	66.667	85.000	86.667
85	10.667	20.333	30.000	33.667	31.333
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	143.42	N.A.	12.60
0-30	303.54	N.A.	26.60
0-40	494.61	N.A.	43.40
0-60	868.22	N.A.	76.20
0-80	1108.46	N.A.	97.20
0-90	1140.01	N.A.	100.00
10-90	1102.87	N.A.	96.70
20-40	351.19	N.A.	30.80
20-50	547.32	N.A.	48.00
40-70	516.88	N.A.	45.30
60-80	240.23	N.A.	21.10
70-80	96.96	N.A.	8.50
80-90	31.55	N.A.	2.80
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	1140.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.14
10-20	106.28
20-30	160.12
30-40	191.08
40-50	196.12
50-60	177.49
60-70	143.27
70-80	96.96
80-90	31.55
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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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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	11.1	12.8	11.5	13.1	13.4	12.9	14.6	13.3	14.9	15.2
	3H	12.7	14.2	13.1	14.5	14.9	15.4	16.9	15.8	17.3	17.6
	4H	13.3	14.7	13.7	15.1	15.4	16.5	18.0	16.9	18.3	18.7
	6H	13.7	15.0	14.1	15.4	15.8	17.5	18.8	17.9	19.2	19.6
	8H	13.8	15.1	14.3	15.5	15.9	17.8	19.1	18.2	19.5	19.9
	12H	13.9	15.1	14.3	15.5	15.9	18.0	19.2	18.4	19.6	20.0

UGR Viewed Endwise

4H	2H	12.1	13.5	12.5	13.9	14.2	13.5	14.9	13.9	15.3	15.6
	3H	13.9	15.2	14.4	15.5	15.9	16.2	17.4	16.6	17.8	18.2
	4H	14.7	15.8	15.1	16.2	16.6	17.6	18.7	18.0	19.1	19.5
	6H	15.2	16.2	15.7	16.6	17.1	18.7	19.7	19.2	20.1	20.6
	8H	15.4	16.3	15.9	16.7	17.2	19.1	20.0	19.6	20.4	20.9
	12H	15.5	16.3	16.0	16.8	17.2	19.3	20.1	19.8	20.6	21.1

8H	4H	15.4	16.3	15.9	16.8	17.2	17.9	18.8	18.3	19.2	19.7
	6H	16.2	16.9	16.6	17.4	17.9	19.2	19.9	19.7	20.4	20.9
	8H	16.4	17.1	16.9	17.6	18.1	19.7	20.4	20.2	20.9	21.4
	12H	16.6	17.2	17.1	17.7	18.2	20.0	20.6	20.5	21.1	21.7

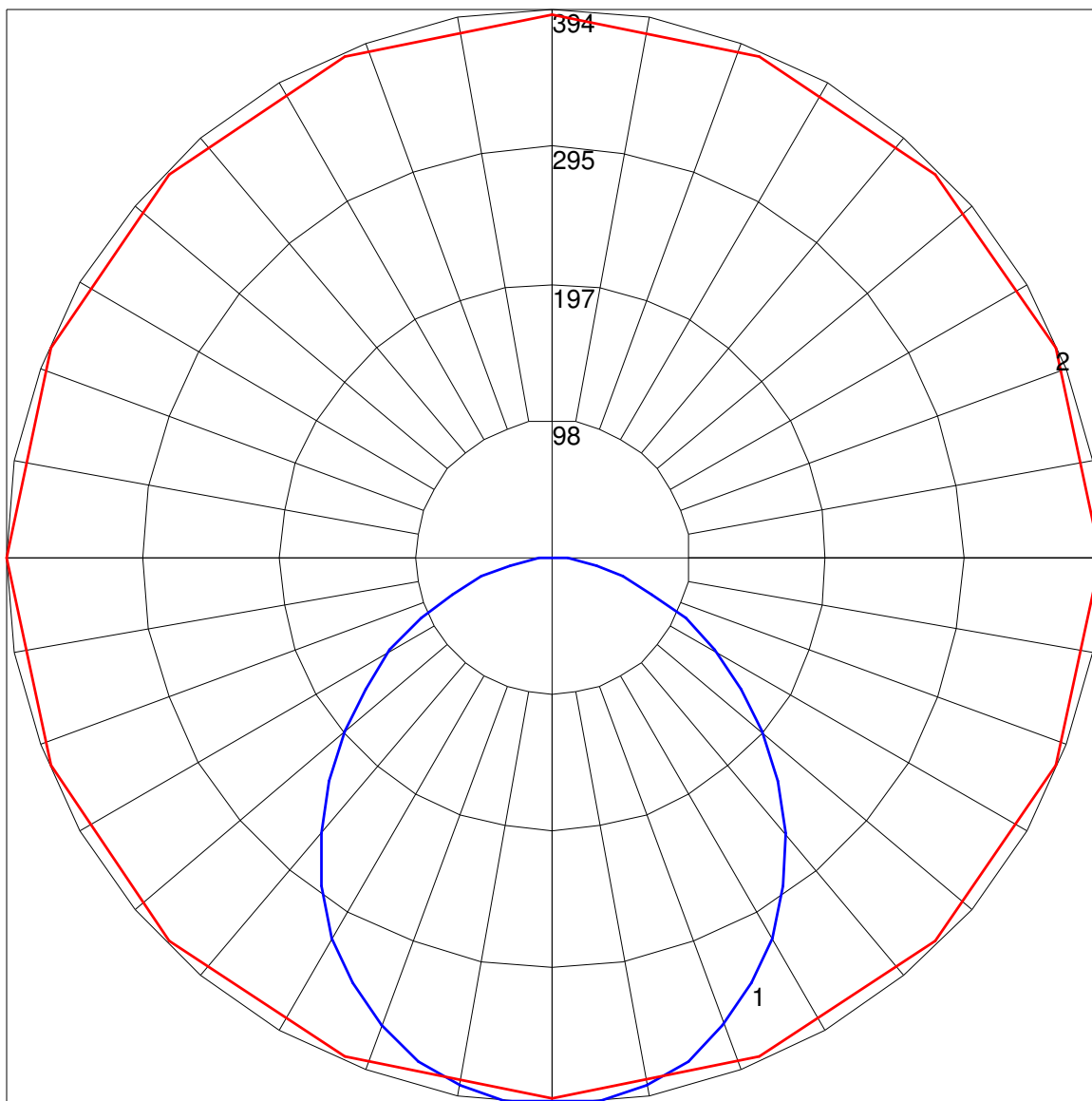
12H	4H	15.6	16.4	16.1	16.9	17.3	17.9	18.7	18.4	19.2	19.6
	6H	16.4	17.1	16.9	17.6	18.1	19.3	19.9	19.8	20.4	20.9
	8H	16.7	17.3	17.2	17.8	18.4	19.8	20.4	20.3	20.9	21.5

Maximum UGR = 21.7

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POLAR GRAPH



Maximum Candela = 393.667 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)