



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-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
 [ISSUE DATE] 06-12-2023
 [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] ELECTRONIC LED DRIVER
 [LUMCAT] LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	1017	1138	1240
55	905	1093	1254
65	783	1091	1340
75	645	1152	1534
85	386	1085	1133

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV_EMER MODE.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	427.111	427.111	427.111	427.111	427.111
5	428.199	425.661	424.573	424.211	423.848
10	420.222	418.772	419.134	419.134	419.860
15	408.620	407.532	410.795	410.795	412.246
20	390.854	390.854	398.105	399.193	401.006
25	369.099	371.275	379.977	382.877	386.140
30	345.170	348.070	357.860	363.661	370.550
35	315.076	320.515	332.117	343.719	350.608
40	282.807	288.246	305.649	321.602	327.403
45	248.363	257.064	277.731	295.860	302.749
50	212.830	225.883	246.912	267.216	276.281
55	179.111	192.889	216.456	238.573	248.363
60	146.842	160.620	186.725	211.380	220.807
65	114.211	129.801	159.170	185.275	195.427
70	83.392	98.620	131.614	159.895	168.234
75	57.649	72.152	102.971	130.526	137.053
80	34.082	46.772	72.515	92.456	94.269
85	11.602	22.117	32.632	36.620	34.082
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	156.00	N.A.	12.60
0-30	330.16	N.A.	26.60
0-40	538.00	N.A.	43.40
0-60	944.38	N.A.	76.20
0-80	1205.69	N.A.	97.20
0-90	1240.01	N.A.	100.00
10-90	1199.61	N.A.	96.70
20-40	382.00	N.A.	30.80
20-50	595.33	N.A.	48.00
40-70	562.23	N.A.	45.30
60-80	261.31	N.A.	21.10
70-80	105.46	N.A.	8.50
80-90	34.32	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	1240.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.39
10-20	115.60
20-30	174.16
30-40	207.84
40-50	213.33
50-60	193.06
60-70	155.84
70-80	105.46
80-90	34.32
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV_EMER MODE.IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV_EMER MODE.IES

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	11.3	13.0	11.7	13.3	13.6	13.1	14.8	13.5	15.1	15.4
	3H	12.9	14.4	13.3	14.7	15.1	15.6	17.1	16.0	17.5	17.8
	4H	13.5	14.9	13.9	15.3	15.6	16.7	18.2	17.1	18.5	18.9
	6H	13.9	15.2	14.3	15.6	16.0	17.7	19.0	18.1	19.4	19.8
	8H	14.0	15.3	14.5	15.7	16.1	18.0	19.3	18.4	19.7	20.1
	12H	14.1	15.3	14.5	15.7	16.1	18.2	19.4	18.6	19.8	20.2

UGR Viewed Endwise

4H	2H	12.3	13.7	12.7	14.1	14.4	13.7	15.1	14.1	15.5	15.8
	3H	14.1	15.4	14.6	15.7	16.1	16.4	17.6	16.8	18.0	18.4
	4H	14.9	16.0	15.3	16.4	16.8	17.8	18.9	18.2	19.3	19.7
	6H	15.4	16.4	15.9	16.8	17.3	18.9	19.9	19.4	20.3	20.8
	8H	15.6	16.5	16.1	16.9	17.4	19.3	20.2	19.8	20.6	21.1
	12H	15.7	16.5	16.2	17.0	17.4	19.5	20.3	20.0	20.8	21.3

8H	4H	15.6	16.5	16.1	17.0	17.4	18.1	19.0	18.5	19.4	19.9
	6H	16.4	17.1	16.8	17.6	18.1	19.4	20.1	19.9	20.6	21.1
	8H	16.6	17.3	17.1	17.8	18.3	19.9	20.6	20.4	21.1	21.6
	12H	16.8	17.4	17.3	17.9	18.4	20.2	20.8	20.7	21.3	21.9

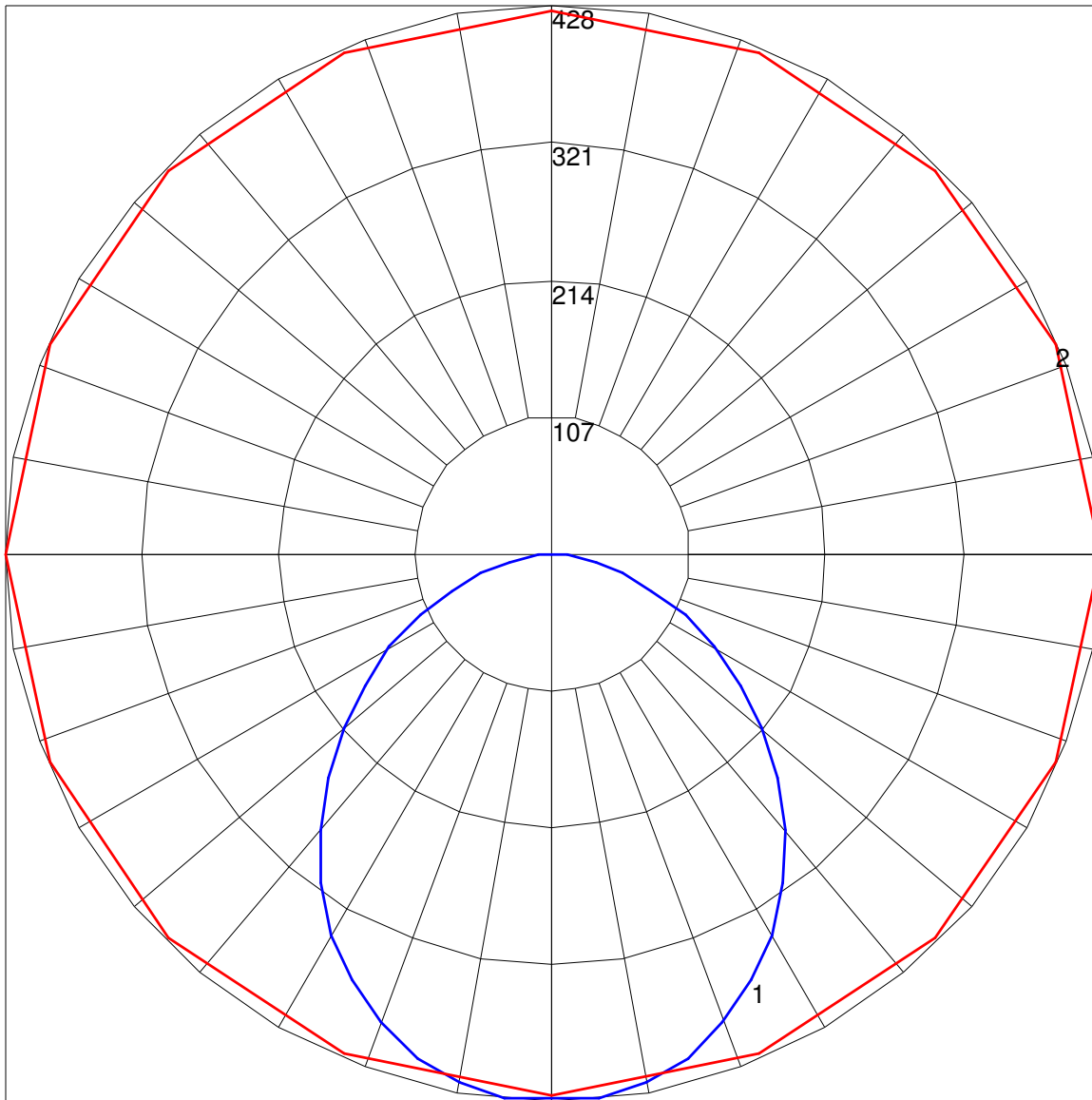
12H	4H	15.8	16.6	16.3	17.1	17.5	18.1	18.9	18.6	19.4	19.8
	6H	16.6	17.3	17.1	17.8	18.3	19.5	20.1	20.0	20.6	21.1
	8H	16.9	17.5	17.4	18.0	18.6	20.0	20.6	20.5	21.1	21.7

Maximum UGR = 21.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L49-835-AF-(L40)-EM10W-DIM-UNV_EMER MODE.IES

POLAR GRAPH



Maximum Candela = 428.199 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.)