



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L39-840-AF-(L32)-EM10W-DIM-UNV_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20203.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 03-06-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x2 RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-22-L39-840-AF-(L32)-EMBSL10LST-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1107	1189	1280
55	1003	1170	1320
65	884	1158	1430
75	680	1228	1672
85	296	998	973

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LT-22-L39-840-AF-(L32)-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	425.933	425.933	425.933	425.933	425.933
5	425.566	423.732	423.365	421.897	422.998
10	418.229	416.394	417.862	416.394	417.495
15	407.223	406.489	408.690	409.424	410.525
20	389.613	392.181	395.483	399.152	399.885
25	369.435	374.572	379.341	385.211	386.678
30	347.790	353.660	360.631	369.435	372.370
35	323.944	329.080	337.518	350.725	353.660
40	296.796	301.932	313.672	327.613	332.382
45	267.446	272.216	287.257	301.932	309.269
50	232.961	239.197	258.275	273.316	283.955
55	196.641	205.446	229.292	245.801	258.641
60	162.155	172.061	199.576	220.487	232.961
65	127.670	138.309	167.291	195.540	206.546
70	93.918	105.291	137.575	168.392	179.765
75	60.166	74.107	108.593	139.043	147.848
80	29.716	46.592	74.841	102.356	99.421
85	8.805	17.976	29.716	50.261	28.983
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : LT-22-L39-840-AF-(L32)-EM10W-DIM-UNV_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	155.43	N.A.	12.10
0-30	330.36	N.A.	25.80
0-40	542.46	N.A.	42.40
0-60	967.41	N.A.	75.60
0-80	1244.42	N.A.	97.20
0-90	1279.95	N.A.	100.00
10-90	1239.73	N.A.	96.90
20-40	387.04	N.A.	30.20
20-50	608.56	N.A.	47.50
40-70	590.55	N.A.	46.10
60-80	277.01	N.A.	21.60
70-80	111.41	N.A.	8.70
80-90	35.52	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	1279.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.22
10-20	115.21
20-30	174.93
30-40	212.11
40-50	221.52
50-60	203.43
60-70	165.60
70-80	111.41
80-90	35.52
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-L39-840-AF-(L32)-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	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L39-840-AF-(L32)-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	11.8	13.5	12.2	13.8	14.1	13.4	15.1	13.8	15.4	15.7
	3H	13.4	15.0	13.8	15.3	15.6	16.0	17.5	16.3	17.8	18.2
	4H	14.0	15.4	14.4	15.8	16.1	17.1	18.6	17.5	18.9	19.3
	6H	14.3	15.7	14.7	16.0	16.4	18.1	19.4	18.5	19.8	20.2
	8H	14.4	15.7	14.8	16.1	16.5	18.4	19.7	18.8	20.1	20.5
	12H	14.4	15.7	14.9	16.0	16.5	18.5	19.8	19.0	20.2	20.6

UGR Viewed Endwise

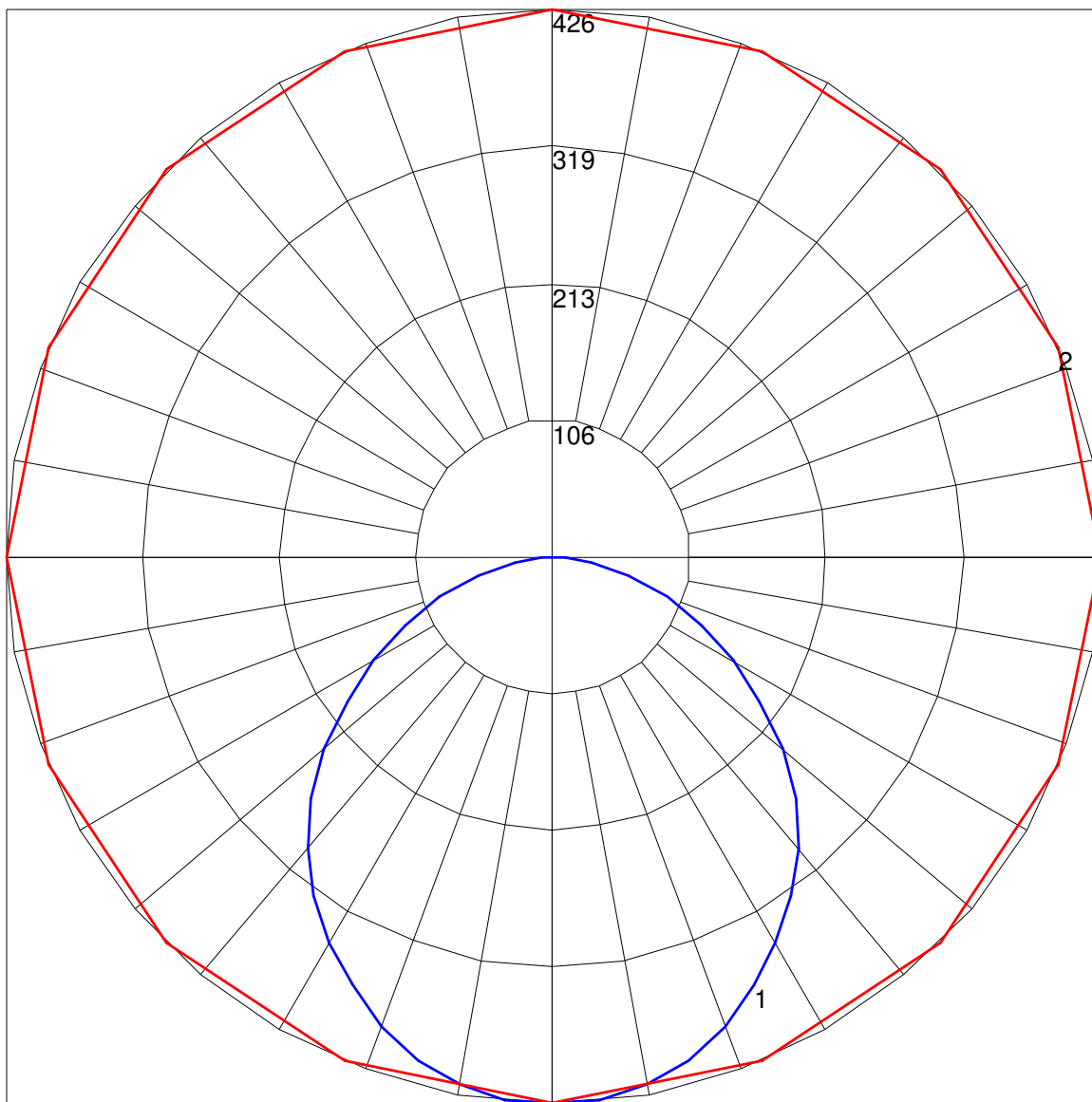
4H	2H	12.7	14.2	13.1	14.5	14.9	14.0	15.4	14.4	15.8	16.1
	3H	14.6	15.8	15.0	16.2	16.6	16.8	18.0	17.2	18.4	18.8
	4H	15.3	16.4	15.7	16.8	17.2	18.1	19.3	18.6	19.7	20.1
	6H	15.8	16.7	16.2	17.2	17.6	19.3	20.3	19.8	20.7	21.2
	8H	15.9	16.8	16.3	17.2	17.7	19.7	20.6	20.2	21.1	21.5
	12H	15.9	16.8	16.4	17.2	17.7	19.9	20.8	20.4	21.2	21.7
8H	4H	16.0	16.9	16.5	17.4	17.9	18.4	19.4	18.9	19.8	20.3
	6H	16.7	17.4	17.2	17.9	18.4	19.8	20.6	20.3	21.1	21.6
	8H	16.9	17.6	17.4	18.1	18.5	20.4	21.0	20.9	21.6	22.0
	12H	17.0	17.6	17.5	18.1	18.6	20.7	21.3	21.2	21.8	22.4
12H	4H	16.2	17.0	16.7	17.5	18.0	18.5	19.3	18.9	19.8	20.2
	6H	16.9	17.6	17.5	18.1	18.6	19.9	20.6	20.4	21.0	21.6
	8H	17.2	17.8	17.7	18.3	18.9	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.4

IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L39-840-AF-(L32)-EM10W-DIM-UNV_EMER MODE.IES

POLAR GRAPH



Maximum Candela = 425.933 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.)