



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-AR-22-L39-940-AF-(L33)-DIM-UNV_.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] 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)-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	24.6
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	2302	2575	2807
55	2047	2474	2838
65	1771	2469	3031
75	1460	2608	3471
85	873	2454	2563

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	966.511	966.511	966.511	966.511	966.511
5	968.973	963.229	960.768	959.947	959.127
10	950.922	947.640	948.461	948.461	950.102
15	924.667	922.206	929.590	929.590	932.872
20	884.464	884.464	900.874	903.335	907.437
25	835.236	840.159	859.850	866.414	873.798
30	781.085	787.649	809.802	822.929	838.518
35	712.987	725.294	751.549	777.804	793.392
40	639.965	652.272	691.654	727.755	740.882
45	562.020	581.712	628.478	669.502	685.091
50	481.615	511.151	558.739	604.685	625.196
55	405.311	436.489	489.819	539.868	562.020
60	332.289	363.467	422.541	478.333	499.665
65	258.447	293.727	360.185	419.259	442.232
70	188.708	223.167	297.830	361.826	380.697
75	130.454	163.273	233.013	295.368	310.137
80	77.124	105.840	164.094	209.219	213.322
85	26.255	50.049	73.842	82.867	77.124
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	353.01	N.A.	12.60
0-30	747.12	N.A.	26.60
0-40	1217.44	N.A.	43.40
0-60	2137.05	N.A.	76.20
0-80	2728.36	N.A.	97.20
0-90	2806.02	N.A.	100.00
10-90	2714.61	N.A.	96.70
20-40	864.43	N.A.	30.80
20-50	1347.16	N.A.	48.00
40-70	1272.26	N.A.	45.30
60-80	591.31	N.A.	21.10
70-80	238.65	N.A.	8.50
80-90	77.66	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	2806.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.41
10-20	261.60
20-30	394.11
30-40	470.32
40-50	482.73
50-60	436.87
60-70	352.65
70-80	238.65
80-90	77.66
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	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	14.2	15.9	14.6	16.2	16.5	16.0	17.7	16.4	18.0	18.3
	3H	15.8	17.3	16.2	17.6	18.0	18.5	20.0	18.9	20.4	20.7
	4H	16.4	17.8	16.8	18.2	18.5	19.6	21.1	20.0	21.4	21.8
	6H	16.8	18.1	17.2	18.5	18.9	20.6	21.9	21.0	22.3	22.7
	8H	16.9	18.2	17.4	18.6	19.0	20.9	22.2	21.3	22.6	23.0
	12H	17.0	18.2	17.4	18.6	19.0	21.1	22.3	21.5	22.7	23.1

UGR Viewed Endwise

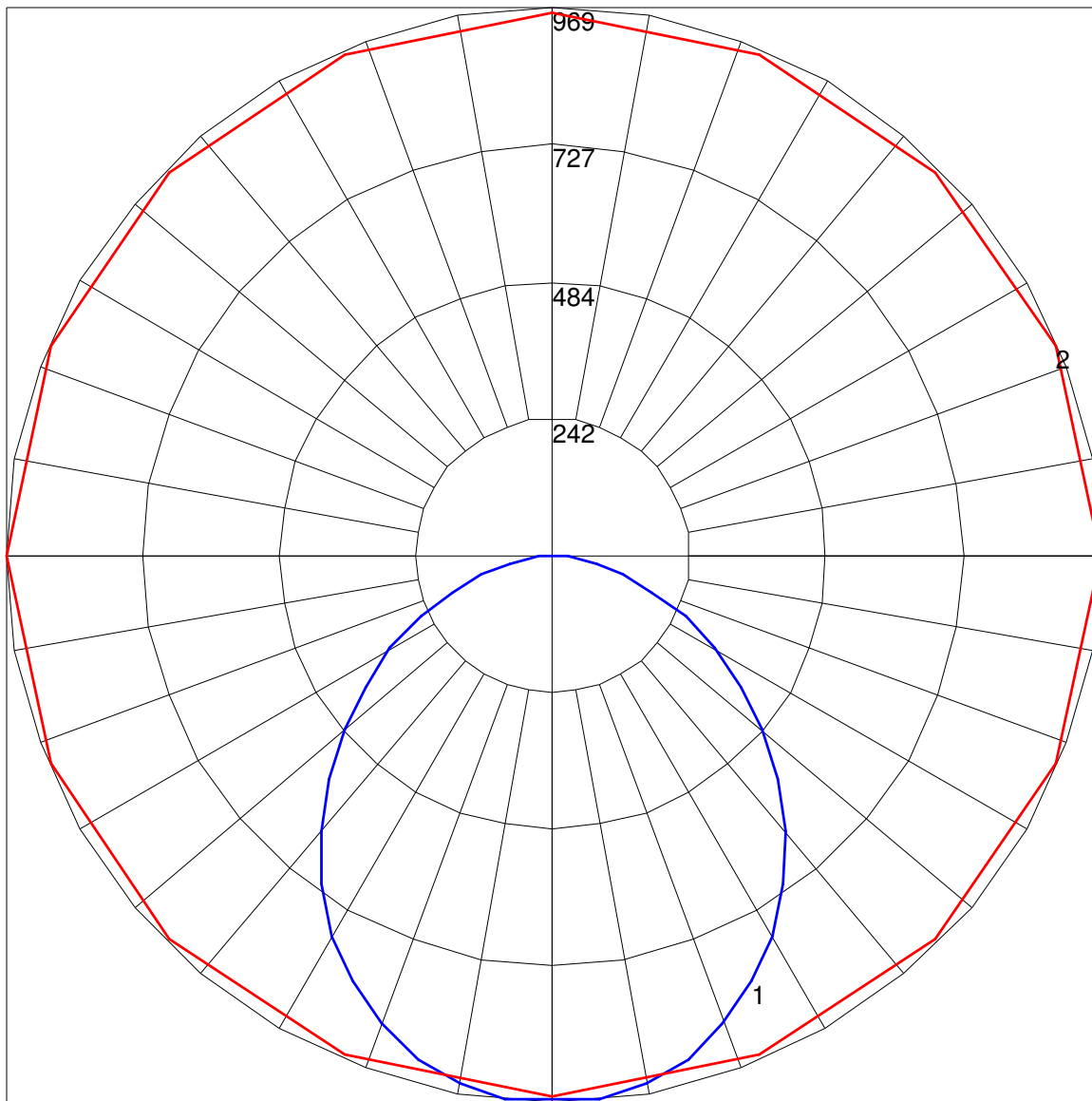
4H	2H	15.2	16.6	15.6	17.0	17.3	16.6	18.0	17.0	18.4	18.7
	3H	17.0	18.3	17.5	18.6	19.0	19.3	20.5	19.7	20.9	21.3
	4H	17.8	18.9	18.2	19.3	19.7	20.7	21.8	21.1	22.2	22.6
	6H	18.3	19.3	18.8	19.7	20.2	21.8	22.8	22.3	23.2	23.7
	8H	18.5	19.4	19.0	19.8	20.3	22.2	23.1	22.7	23.5	24.0
	12H	18.6	19.4	19.1	19.9	20.3	22.4	23.2	22.9	23.7	24.2

8H	4H	18.5	19.4	19.0	19.9	20.3	21.0	21.9	21.4	22.3	22.8
	6H	19.3	20.0	19.7	20.5	21.0	22.3	23.0	22.8	23.5	24.0
	8H	19.5	20.2	20.0	20.7	21.2	22.8	23.5	23.3	24.0	24.5
	12H	19.7	20.3	20.2	20.8	21.3	23.1	23.7	23.6	24.2	24.8

12H	4H	18.7	19.5	19.2	20.0	20.4	21.0	21.8	21.5	22.3	22.7
	6H	19.5	20.2	20.0	20.7	21.2	22.4	23.0	22.9	23.5	24.0
	8H	19.8	20.4	20.3	20.9	21.5	22.9	23.5	23.4	24.0	24.6

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 968.973 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.)