



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L5-835-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 21002.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-10-03
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 48 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
 [MORE] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
 [MORE] 0-10V REMOTE DRIVER ENCLOSURE
 [LUMCAT] SL-4-L5-835-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	17.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12496	10071	9579
55	11794	9011	8641
65	10498	7745	7690
75	8791	6375	6844
85	4759	5286	6163

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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	636.498	636.498	636.498	636.498	636.498
5	638.581	635.456	631.289	630.247	631.289
10	629.206	626.080	621.913	621.913	623.997
15	615.663	612.538	608.371	609.413	609.413
20	594.828	591.703	586.495	590.661	591.703
25	568.785	565.660	564.618	567.743	569.827
30	536.491	536.491	536.491	540.658	539.617
35	502.114	502.114	502.114	506.281	509.406
40	460.445	461.487	462.529	469.821	473.988
45	415.651	418.776	421.901	430.235	433.360
50	366.689	369.815	377.107	389.607	395.858
55	319.811	320.853	334.396	344.813	354.189
60	265.641	270.850	289.601	309.394	315.644
65	211.471	219.805	241.682	263.558	272.934
70	161.468	169.802	196.887	223.972	232.306
75	110.423	125.008	155.218	185.428	197.929
80	64.587	80.213	120.841	151.051	164.593
85	21.876	51.045	88.547	118.757	132.300
90	0.000	28.127	65.629	92.714	103.131
95	0.000	14.584	44.794	71.879	81.255
100	0.000	7.292	31.252	53.128	62.504
105	0.000	4.167	21.876	38.544	46.878
110	0.000	3.125	14.584	28.127	33.335
115	0.000	2.083	9.376	19.793	25.002
120	0.000	0.000	5.209	12.501	15.626
125	0.000	0.000	4.167	8.334	10.417
130	0.000	0.000	0.000	5.209	6.250
135	0.000	0.000	0.000	0.000	4.167
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	232.40	N.A.	11.50
0-30	493.59	N.A.	24.40
0-40	808.76	N.A.	40.00
0-60	1435.21	N.A.	71.00
0-80	1840.26	N.A.	91.00
0-90	1934.00	N.A.	95.70
10-90	1873.86	N.A.	92.70
20-40	576.36	N.A.	28.50
20-50	903.31	N.A.	44.70
40-70	866.85	N.A.	42.90
60-80	405.04	N.A.	20.00
70-80	164.65	N.A.	8.10
80-90	93.74	N.A.	4.60
90-110	72.03	N.A.	3.60
90-120	82.97	N.A.	4.10
90-130	86.88	N.A.	4.30
90-150	87.51	N.A.	4.30
90-180	87.51	N.A.	4.30
110-180	15.47	N.A.	0.80
0-180	2021.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.15
10-20	172.25
20-30	261.19
30-40	315.17
40-50	326.95
50-60	299.51
60-70	240.40
70-80	164.65
80-90	93.74
90-100	48.09
100-110	23.95
110-120	10.94
120-130	3.91
130-140	0.62
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	88	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	76	68	61	85	75	67	60	71	64	59	67	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	30
8	58	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	29	24	36	29	24	35	28	24	33	28	23	22

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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	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	23.9	22.9	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.5	22.9	24.8	26.0	25.2	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.5
	12H	20.8	22.0	21.3	22.4	23.0	26.0	27.2	26.5	27.6	28.2

UGR Viewed Endwise

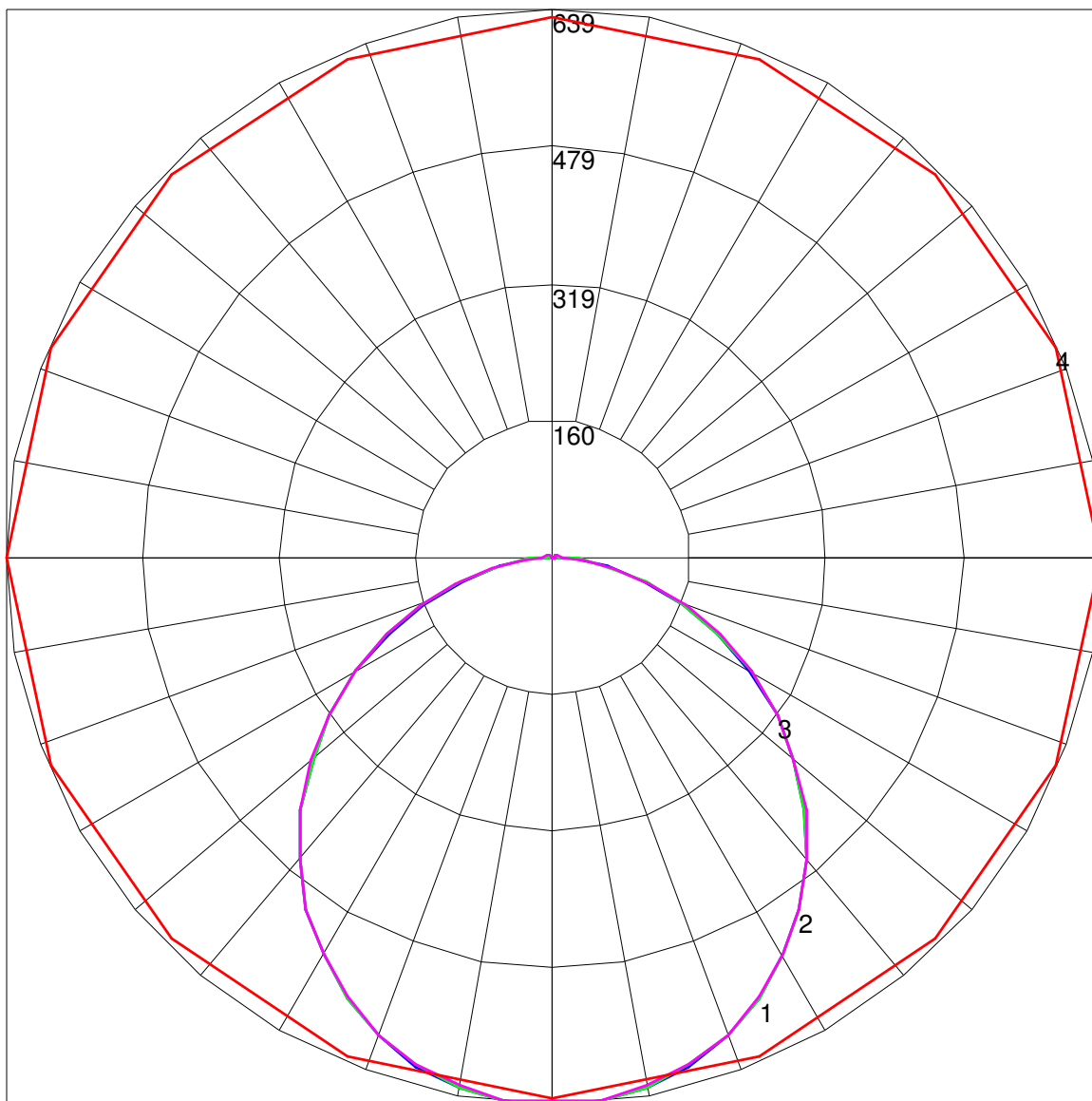
4H	2H	19.3	20.7	19.7	21.1	21.6	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.1	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	25.9	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.7	26.7	26.3	27.2	27.7
	8H	22.0	22.9	22.6	23.4	24.0	26.4	27.3	26.9	27.8	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.2	28.0	27.7	28.5	29.1

8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.5
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.8	26.6	27.4	27.9
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.4	28.1	28.7
	12H	22.9	23.5	23.5	24.0	24.7	27.8	28.4	28.4	29.0	29.6

12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.1	25.9	26.5
	6H	22.8	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.3	27.9
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.5	28.1	28.8

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 638.581 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)