



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-835-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] 1.5"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS  
[MORE] 0-10V REMOTE DRIVER ENCLOSURE  
[LUMCAT] SL-4-L10-835-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4076
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	37.7
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	25196	20307	19315
55	23781	18168	17423
65	21166	15617	15505
75	17725	12854	13800
85	9596	10658	12426

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-835-RD-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1283.384	1283.384	1283.384	1283.384	1283.384
5	1287.584	1281.283	1272.881	1270.781	1272.881
10	1268.680	1262.379	1253.977	1253.977	1258.178
15	1241.374	1235.073	1226.671	1228.772	1228.772
20	1199.365	1193.064	1182.561	1190.963	1193.064
25	1146.853	1140.552	1138.452	1144.753	1148.954
30	1081.739	1081.739	1081.739	1090.141	1088.040
35	1012.424	1012.424	1012.424	1020.826	1027.127
40	928.405	930.506	932.606	947.309	955.711
45	838.085	844.387	850.688	867.492	873.793
50	739.363	745.665	760.368	785.574	798.176
55	644.842	646.943	674.249	695.254	714.158
60	535.618	546.121	583.929	623.838	636.441
65	426.394	443.198	487.308	531.417	550.322
70	325.572	342.376	396.988	451.600	468.403
75	222.649	252.056	312.969	373.883	399.088
80	130.229	161.736	243.654	304.567	331.873
85	44.110	102.923	178.539	239.453	266.759
90	0.000	56.713	132.329	186.941	207.946
95	0.000	29.406	90.320	144.932	163.836
100	0.000	14.703	63.014	107.124	126.028
105	0.000	8.402	44.110	77.717	94.521
110	0.000	6.301	29.406	56.713	67.215
115	0.000	4.201	18.904	39.909	50.411
120	0.000	0.000	10.502	25.206	31.507
125	0.000	0.000	8.402	16.804	21.005
130	0.000	0.000	0.000	10.502	12.603
135	0.000	0.000	0.000	0.000	8.402
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-835-RD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.59	N.A.	11.50
0-30	995.24	N.A.	24.40
0-40	1630.71	N.A.	40.00
0-60	2893.85	N.A.	71.00
0-80	3710.55	N.A.	91.00
0-90	3899.57	N.A.	95.70
10-90	3778.29	N.A.	92.70
20-40	1162.13	N.A.	28.50
20-50	1821.36	N.A.	44.70
40-70	1747.85	N.A.	42.90
60-80	816.70	N.A.	20.00
70-80	331.98	N.A.	8.10
80-90	189.02	N.A.	4.60
90-110	145.24	N.A.	3.60
90-120	167.30	N.A.	4.10
90-130	175.19	N.A.	4.30
90-150	176.44	N.A.	4.30
90-180	176.44	N.A.	4.30
110-180	31.20	N.A.	0.80
0-180	4076.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.28
10-20	347.31
20-30	526.65
30-40	635.48
40-50	659.23
50-60	603.91
60-70	484.71
70-80	331.98
80-90	189.02
90-100	96.96
100-110	48.29
110-120	22.05
120-130	7.89
130-140	1.26
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-835-RD-DIM-UNV\_.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	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	89	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	68	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	59	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	30	24	36	29	24	35	28	24	33	28	23	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-4-L10-835-RD-DIM-UNV\_.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	21.0	22.6	21.4	23.0	23.4	22.7	24.3	23.1	24.7	25.1
	3H	22.5	23.9	22.9	24.3	24.8	25.0	26.4	25.4	26.9	27.3
	4H	22.9	24.3	23.4	24.7	25.2	26.1	27.5	26.6	27.9	28.4
	6H	23.2	24.5	23.7	25.0	25.4	27.3	28.5	27.7	29.0	29.5
	8H	23.3	24.5	23.8	25.0	25.5	27.8	29.1	28.3	29.5	30.0
	12H	23.3	24.5	23.8	24.9	25.5	28.5	29.7	29.0	30.1	30.7

UGR Viewed Endwise

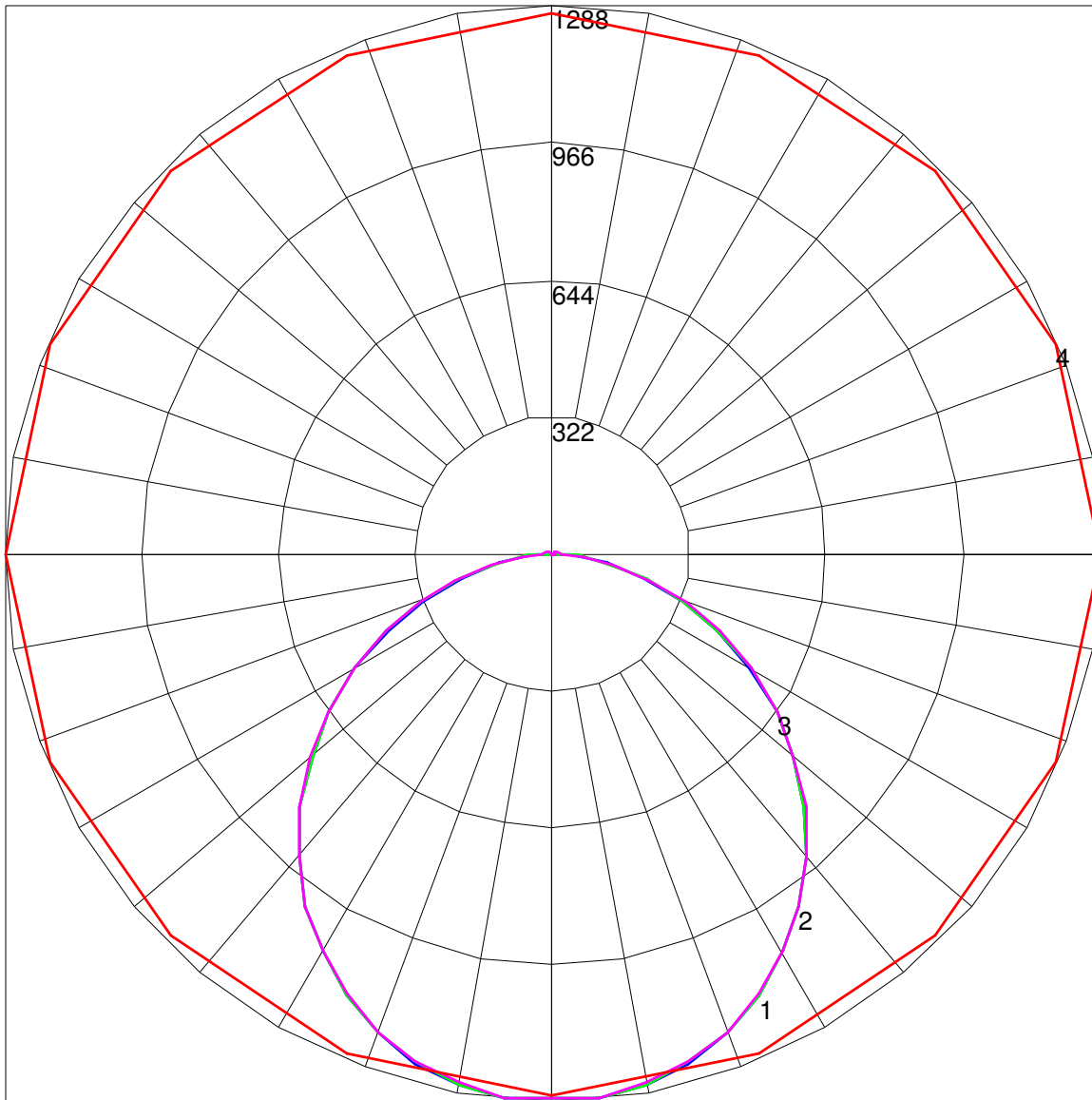
4H	2H	21.8	23.1	22.2	23.6	24.0	23.1	24.5	23.6	24.9	25.4
	3H	23.5	24.6	23.9	25.1	25.6	25.6	26.8	26.1	27.3	27.8
	4H	24.0	25.1	24.5	25.6	26.1	26.9	28.0	27.4	28.4	29.0
	6H	24.4	25.4	25.0	25.9	26.4	28.2	29.2	28.8	29.7	30.2
	8H	24.5	25.4	25.1	25.9	26.5	28.9	29.8	29.4	30.3	30.9
	12H	24.6	25.4	25.1	25.9	26.5	29.7	30.5	30.2	31.0	31.6

8H	4H	24.6	25.5	25.1	26.0	26.5	27.1	28.0	27.6	28.5	29.0
	6H	25.1	25.9	25.7	26.4	27.0	28.6	29.3	29.1	29.9	30.4
	8H	25.3	26.0	25.8	26.5	27.1	29.4	30.1	29.9	30.6	31.2
	12H	25.4	26.0	26.0	26.5	27.2	30.3	30.9	30.9	31.5	32.1

12H	4H	24.7	25.5	25.3	26.1	26.6	27.1	27.9	27.6	28.4	29.0
	6H	25.3	26.0	25.9	26.6	27.2	28.6	29.3	29.2	29.8	30.4
	8H	25.6	26.2	26.1	26.7	27.4	29.5	30.1	30.0	30.6	31.3

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 1287.584 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.)