



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-8-L10-830-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] 96 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-8-L10-830-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	70.8
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)	8.00 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	24726	19878	18845
55	23395	17802	16999
65	20909	15323	15128
75	17665	12638	13464
85	9952	10519	12124

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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	2504.325	2504.325	2504.325	2504.325	2504.325
5	2512.523	2500.227	2483.832	2479.733	2483.832
10	2475.634	2463.338	2446.943	2446.943	2455.140
15	2422.351	2410.054	2393.659	2397.758	2397.758
20	2340.376	2328.080	2307.586	2323.981	2328.080
25	2237.908	2225.611	2221.513	2233.809	2242.006
30	2110.847	2110.847	2110.847	2127.242	2123.143
35	1975.589	1975.589	1975.589	1991.984	2004.280
40	1811.640	1815.738	1819.837	1848.528	1864.923
45	1635.394	1647.690	1659.986	1692.776	1705.073
50	1442.754	1455.050	1483.741	1532.926	1557.518
55	1258.311	1262.409	1315.693	1356.680	1393.569
60	1045.177	1065.670	1139.447	1217.323	1241.916
65	832.043	864.832	950.906	1036.979	1073.868
70	635.303	668.093	774.660	881.227	914.017
75	434.466	491.848	610.711	729.574	778.759
80	254.121	315.602	475.453	594.316	647.600
85	86.073	200.838	348.392	467.255	520.539
90	0.000	110.666	258.220	364.787	405.774
95	0.000	57.382	176.245	282.813	319.701
100	0.000	28.691	122.962	209.035	245.924
105	0.000	16.395	86.073	151.653	184.443
110	0.000	12.296	57.382	110.666	131.159
115	0.000	8.197	36.889	77.876	98.370
120	0.000	0.000	20.494	49.185	61.481
125	0.000	0.000	16.395	32.790	40.987
130	0.000	0.000	0.000	20.494	24.592
135	0.000	0.000	0.000	0.000	16.395
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	914.37	N.A.	11.50
0-30	1942.05	N.A.	24.40
0-40	3182.08	N.A.	40.00
0-60	5646.91	N.A.	71.00
0-80	7240.56	N.A.	91.00
0-90	7609.41	N.A.	95.70
10-90	7372.76	N.A.	92.70
20-40	2267.71	N.A.	28.50
20-50	3554.1	N.A.	44.70
40-70	3410.67	N.A.	42.90
60-80	1593.66	N.A.	20.00
70-80	647.81	N.A.	8.10
80-90	368.84	N.A.	4.60
90-110	283.42	N.A.	3.60
90-120	326.45	N.A.	4.10
90-130	341.85	N.A.	4.30
90-150	344.30	N.A.	4.30
90-180	344.30	N.A.	4.30
110-180	60.88	N.A.	0.80
0-180	7953.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	236.65
10-20	677.72
20-30	1027.68
30-40	1240.03
40-50	1286.39
50-60	1178.44
60-70	945.85
70-80	647.81
80-90	368.84
90-100	189.20
100-110	94.22
110-120	43.03
120-130	15.40
130-140	2.45
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	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	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	30	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	20.9	22.5	21.3	22.9	23.3	22.6	24.2	23.0	24.6	25.0
	3H	22.4	23.8	22.8	24.2	24.7	24.9	26.4	25.4	26.8	27.2
	4H	22.8	24.2	23.3	24.6	25.1	26.0	27.4	26.5	27.8	28.3
	6H	23.1	24.4	23.6	24.8	25.3	27.2	28.5	27.7	28.9	29.4
	8H	23.2	24.4	23.7	24.9	25.4	27.8	29.0	28.3	29.5	30.0
	12H	23.2	24.4	23.7	24.8	25.4	28.5	29.7	29.0	30.1	30.6

UGR Viewed Endwise

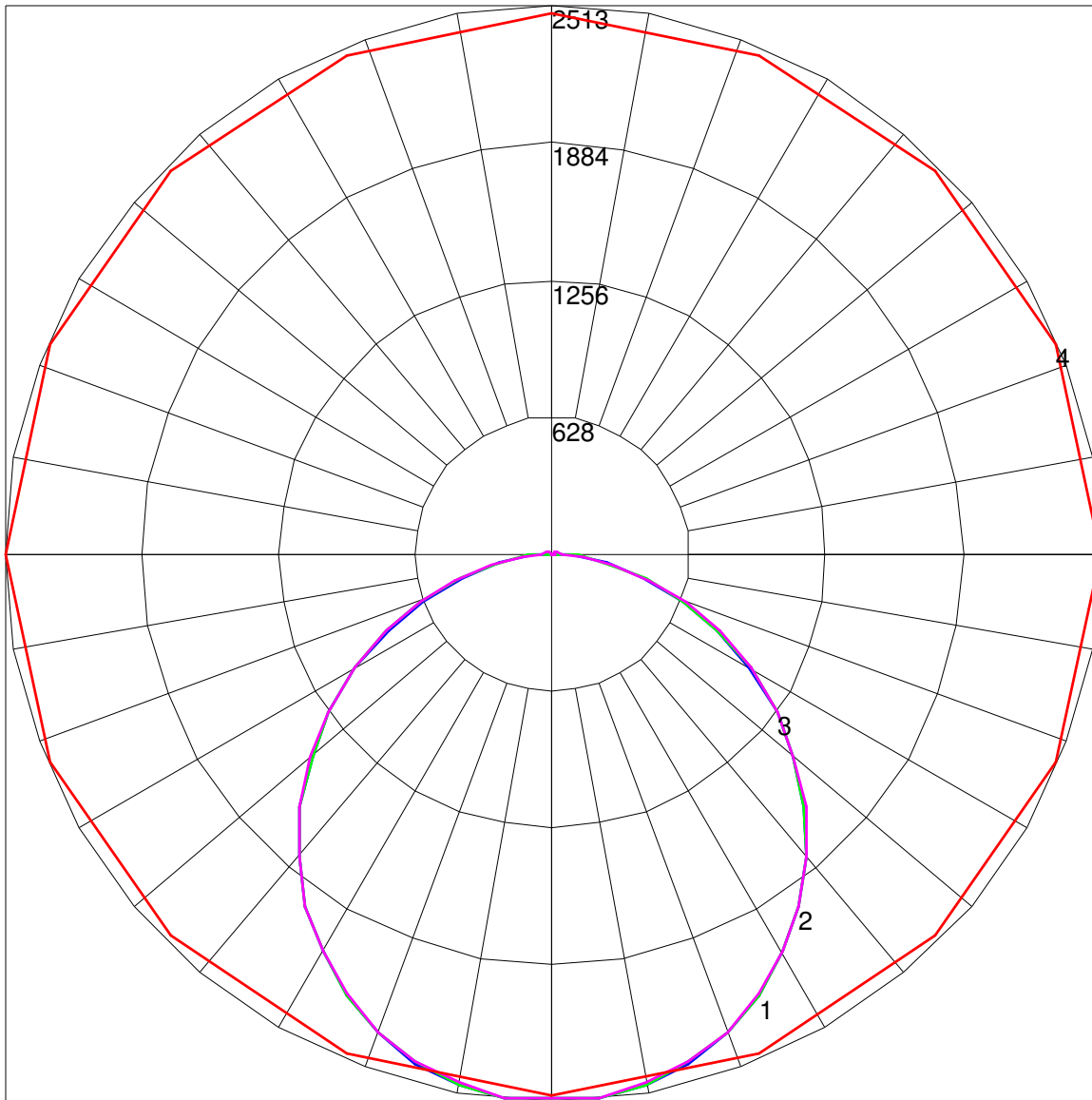
4H	2H	21.7	23.1	22.1	23.5	23.9	23.0	24.4	23.5	24.8	25.3
	3H	23.4	24.5	23.8	25.0	25.5	25.6	26.7	26.0	27.2	27.7
	4H	23.9	25.0	24.4	25.5	26.0	26.8	27.9	27.3	28.4	28.9
	6H	24.3	25.3	24.9	25.8	26.3	28.2	29.1	28.7	29.6	30.2
	8H	24.4	25.3	25.0	25.8	26.4	28.9	29.8	29.4	30.3	30.8
	12H	24.5	25.3	25.0	25.8	26.4	29.7	30.5	30.2	31.0	31.6

8H	4H	24.5	25.4	25.0	25.9	26.4	27.0	27.9	27.5	28.4	29.0
	6H	25.0	25.8	25.6	26.3	26.9	28.5	29.3	29.0	29.8	30.4
	8H	25.2	25.9	25.7	26.4	27.0	29.3	30.0	29.9	30.6	31.2
	12H	25.3	25.9	25.9	26.5	27.1	30.3	30.9	30.9	31.4	32.1

12H	4H	24.6	25.4	25.2	26.0	26.5	27.0	27.8	27.6	28.4	28.9
	6H	25.3	25.9	25.8	26.5	27.1	28.5	29.2	29.1	29.8	30.4
	8H	25.5	26.1	26.1	26.6	27.3	29.4	30.0	30.0	30.6	31.2

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 2512.523 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.)