



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-830-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] 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-L3-830-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	11
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	7452	6006	5713
55	7033	5374	5153
65	6260	4619	4586
75	5242	3802	4081
85	2838	3152	3675

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-830-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	379.576	379.576	379.576	379.576	379.576
5	380.818	378.954	376.469	375.848	376.469
10	375.227	373.363	370.878	370.878	372.121
15	367.151	365.287	362.802	363.423	363.423
20	354.726	352.862	349.756	352.241	352.862
25	339.195	337.331	336.710	338.574	339.816
30	319.937	319.937	319.937	322.422	321.801
35	299.436	299.436	299.436	301.921	303.785
40	274.587	275.208	275.829	280.178	282.663
45	247.873	249.737	251.601	256.571	258.434
50	218.675	220.539	224.888	232.342	236.070
55	190.720	191.341	199.417	205.629	211.220
60	158.415	161.521	172.704	184.507	188.235
65	126.111	131.081	144.127	157.173	162.764
70	96.292	101.262	117.414	133.566	138.536
75	65.851	74.548	92.564	110.580	118.035
80	38.517	47.835	72.063	90.079	98.155
85	13.046	30.441	52.805	70.821	78.897
90	0.000	16.773	39.138	55.290	61.502
95	0.000	8.697	26.713	42.865	48.456
100	0.000	4.349	18.637	31.683	37.274
105	0.000	2.485	13.046	22.986	27.956
110	0.000	1.864	8.697	16.773	19.880
115	0.000	1.242	5.591	11.803	14.910
120	0.000	0.000	3.106	7.455	9.319
125	0.000	0.000	2.485	4.970	6.212
130	0.000	0.000	0.000	3.106	3.727
135	0.000	0.000	0.000	0.000	2.485
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-L3-830-RD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	138.59	N.A.	11.50
0-30	294.35	N.A.	24.40
0-40	482.30	N.A.	40.00
0-60	855.89	N.A.	71.00
0-80	1097.44	N.A.	91.00
0-90	1153.34	N.A.	95.70
10-90	1117.47	N.A.	92.70
20-40	343.71	N.A.	28.50
20-50	538.69	N.A.	44.70
40-70	516.95	N.A.	42.90
60-80	241.55	N.A.	20.00
70-80	98.19	N.A.	8.10
80-90	55.90	N.A.	4.60
90-110	42.96	N.A.	3.60
90-120	49.48	N.A.	4.10
90-130	51.81	N.A.	4.30
90-150	52.18	N.A.	4.30
90-180	52.18	N.A.	4.30
110-180	9.23	N.A.	0.80
0-180	1205.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.87
10-20	102.72
20-30	155.76
30-40	187.95
40-50	194.97
50-60	178.61
60-70	143.36
70-80	98.19
80-90	55.90
90-100	28.68
100-110	14.28
110-120	6.52
120-130	2.33
130-140	0.37
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-830-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	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	73	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	24	50	37	29	24	36	29	24	35	28	24	33	28	23	22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-830-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	16.8	18.4	17.2	18.8	19.2	18.5	20.1	18.9	20.5	20.9
	3H	18.3	19.7	18.7	20.1	20.6	20.8	22.2	21.2	22.6	23.1
	4H	18.7	20.1	19.2	20.5	21.0	21.9	23.3	22.4	23.7	24.2
	6H	19.0	20.3	19.5	20.7	21.2	23.1	24.3	23.5	24.8	25.3
	8H	19.1	20.3	19.6	20.8	21.3	23.6	24.9	24.1	25.3	25.8
	12H	19.1	20.3	19.6	20.7	21.3	24.3	25.5	24.8	25.9	26.5

UGR Viewed Endwise

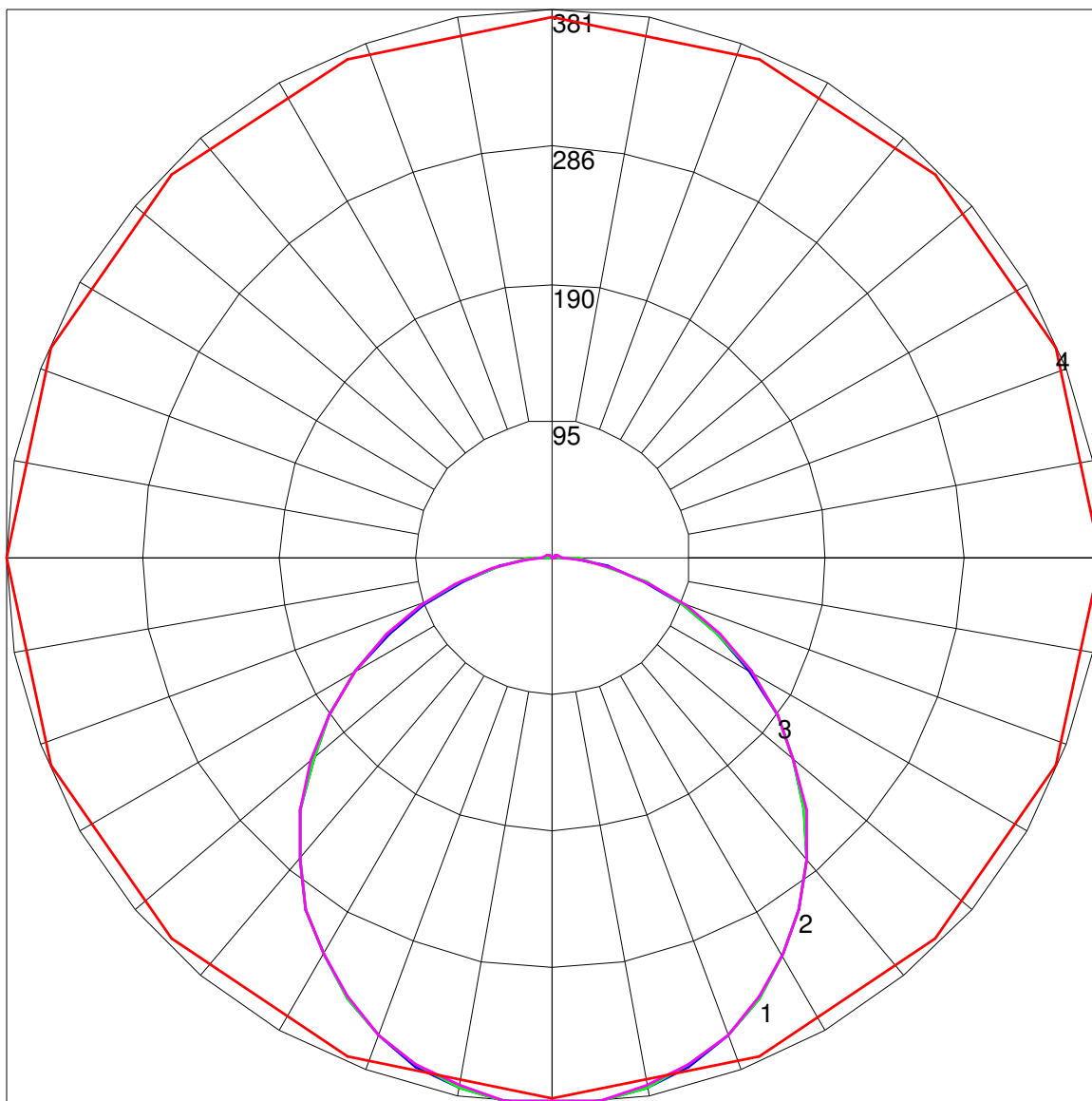
4H	2H	17.6	18.9	18.0	19.4	19.8	18.9	20.3	19.4	20.7	21.2
	3H	19.3	20.4	19.7	20.9	21.4	21.4	22.6	21.9	23.1	23.6
	4H	19.8	20.9	20.3	21.4	21.9	22.7	23.8	23.2	24.2	24.8
	6H	20.2	21.2	20.7	21.7	22.2	24.0	25.0	24.5	25.5	26.0
	8H	20.3	21.2	20.8	21.7	22.3	24.7	25.6	25.2	26.1	26.7
	12H	20.4	21.2	20.9	21.7	22.3	25.5	26.3	26.0	26.8	27.4

8H	4H	20.4	21.3	20.9	21.8	22.3	22.9	23.8	23.4	24.3	24.8
	6H	20.9	21.7	21.4	22.2	22.8	24.4	25.1	24.9	25.7	26.2
	8H	21.1	21.8	21.6	22.3	22.9	25.2	25.9	25.7	26.4	27.0
	12H	21.2	21.8	21.8	22.3	23.0	26.1	26.7	26.7	27.3	27.9

12H	4H	20.5	21.3	21.1	21.9	22.4	22.9	23.7	23.4	24.2	24.8
	6H	21.1	21.8	21.7	22.4	23.0	24.4	25.1	25.0	25.6	26.2
	8H	21.4	22.0	21.9	22.5	23.2	25.3	25.9	25.8	26.4	27.1

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 380.818 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.)