



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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] 24 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-2-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	617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	5.5
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)	2.00 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	7536	6104	5844
55	7078	5451	5272
65	6251	4673	4691
75	5147	3830	4175
85	2596	3152	3760

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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	194.151	194.151	194.151	194.151	194.151
5	194.786	193.833	192.562	192.244	192.562
10	191.926	190.973	189.702	189.702	190.338
15	187.796	186.842	185.571	185.889	185.889
20	181.440	180.487	178.898	180.169	180.487
25	173.496	172.543	172.225	173.179	173.814
30	163.646	163.646	163.646	164.917	164.599
35	153.160	153.160	153.160	154.431	155.384
40	140.449	140.767	141.085	143.309	144.580
45	126.786	127.739	128.692	131.234	132.188
50	111.851	112.804	115.029	118.842	120.748
55	97.552	97.870	102.001	105.178	108.038
60	81.029	82.617	88.337	94.374	96.281
65	64.505	67.047	73.720	80.393	83.253
70	49.253	51.795	60.056	68.318	70.860
75	33.682	38.131	47.346	56.561	60.374
80	19.701	24.467	36.860	46.075	50.206
85	6.673	15.570	27.010	36.225	40.355
90	0.000	8.579	20.019	28.281	31.458
95	0.000	4.449	13.664	21.925	24.785
100	0.000	2.224	9.533	16.206	19.066
105	0.000	1.271	6.673	11.757	14.299
110	0.000	0.953	4.449	8.579	10.168
115	0.000	0.636	2.860	6.037	7.626
120	0.000	0.000	1.589	3.813	4.766
125	0.000	0.000	1.271	2.542	3.178
130	0.000	0.000	0.000	1.589	1.907
135	0.000	0.000	0.000	0.000	1.271
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-2-L3-830-RD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	70.89	N.A.	11.50
0-30	150.56	N.A.	24.40
0-40	246.69	N.A.	40.00
0-60	437.78	N.A.	71.00
0-80	561.33	N.A.	91.00
0-90	589.93	N.A.	95.70
10-90	571.58	N.A.	92.70
20-40	175.81	N.A.	28.50
20-50	275.54	N.A.	44.70
40-70	264.42	N.A.	42.90
60-80	123.55	N.A.	20.00
70-80	50.22	N.A.	8.10
80-90	28.60	N.A.	4.60
90-110	21.97	N.A.	3.60
90-120	25.31	N.A.	4.10
90-130	26.50	N.A.	4.30
90-150	26.69	N.A.	4.30
90-180	26.69	N.A.	4.30
110-180	4.72	N.A.	0.80
0-180	616.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	18.35
10-20	52.54
20-30	79.67
30-40	96.14
40-50	99.73
50-60	91.36
60-70	73.33
70-80	50.22
80-90	28.60
90-100	14.67
100-110	7.30
110-120	3.34
120-130	1.19
130-140	0.19
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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	74	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	48	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	37	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	26	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-2-L3-830-RD-DIM-UNV_.IES

UGR TABLE - CORRECTED

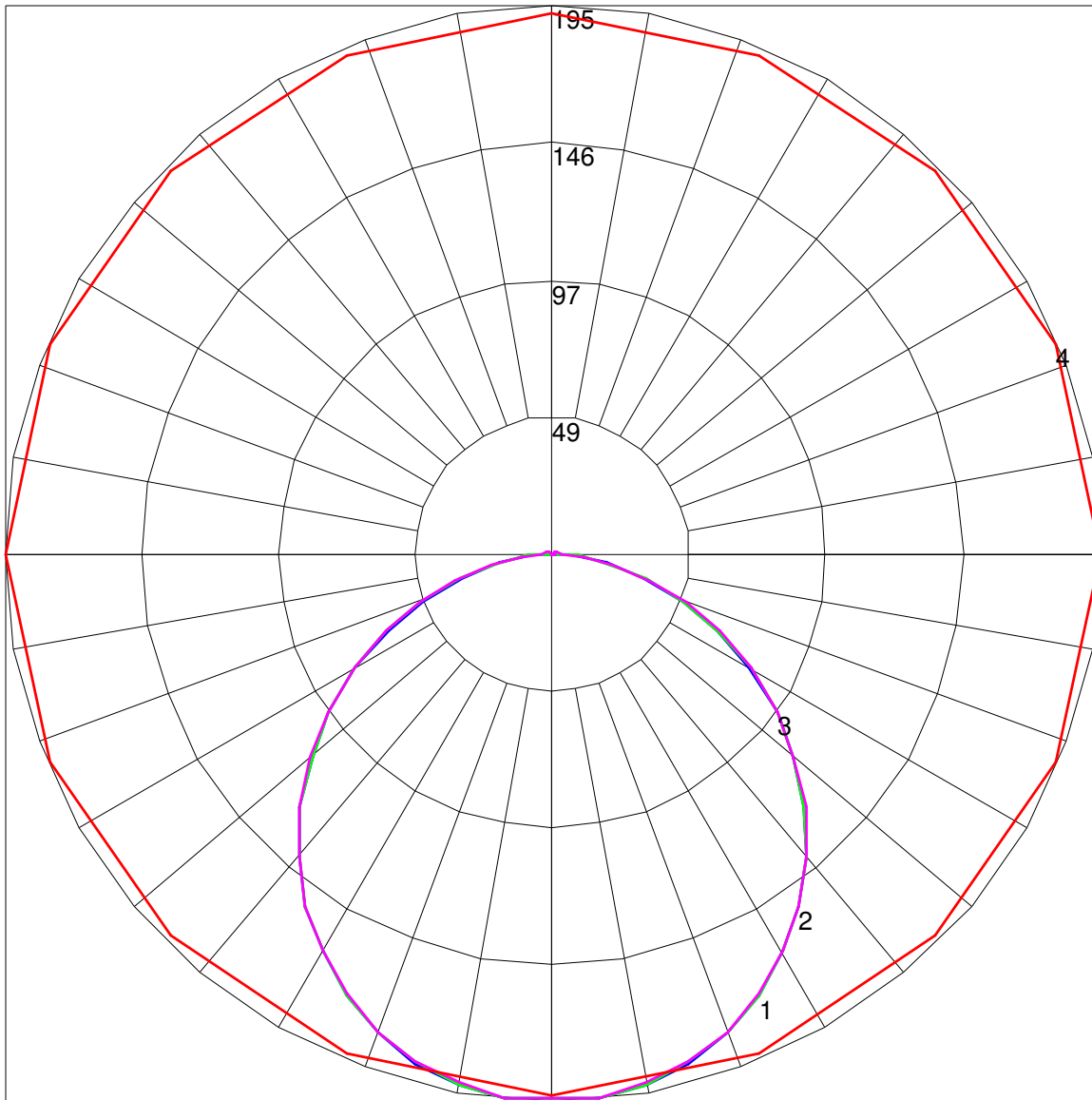
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.8	18.4	17.2	18.8	19.2	18.4	20.0	18.9	20.4	20.8
	3H	18.3	19.7	18.7	20.1	20.6	20.7	22.2	21.2	22.6	23.0
	4H	18.7	20.1	19.2	20.5	21.0	21.8	23.2	22.3	23.6	24.1
	6H	19.0	20.3	19.5	20.7	21.2	23.0	24.2	23.4	24.7	25.2
	8H	19.1	20.3	19.6	20.8	21.3	23.5	24.8	24.0	25.2	25.7
	12H	19.1	20.3	19.6	20.7	21.3	24.2	25.3	24.7	25.8	26.3
4H	2H	17.6	18.9	18.0	19.4	19.8	18.9	20.2	19.3	20.7	21.1
	3H	19.2	20.4	19.7	20.9	21.4	21.4	22.5	21.8	23.0	23.5
	4H	19.8	20.9	20.3	21.4	21.9	22.6	23.7	23.1	24.2	24.7
	6H	20.2	21.2	20.7	21.7	22.2	23.9	24.9	24.4	25.4	25.9
	8H	20.3	21.2	20.8	21.7	22.3	24.6	25.5	25.1	26.0	26.6
	12H	20.4	21.2	20.9	21.7	22.3	25.3	26.1	25.9	26.7	27.3
8H	4H	20.4	21.2	20.9	21.8	22.3	22.8	23.7	23.3	24.2	24.8
	6H	20.9	21.6	21.4	22.2	22.8	24.3	25.0	24.8	25.6	26.1
	8H	21.1	21.7	21.6	22.3	22.9	25.1	25.7	25.6	26.3	26.9
	12H	21.2	21.8	21.7	22.3	23.0	26.0	26.6	26.5	27.1	27.8
12H	4H	20.5	21.3	21.1	21.9	22.4	22.8	23.6	23.4	24.2	24.7
	6H	21.1	21.8	21.7	22.3	23.0	24.3	25.0	24.9	25.5	26.1
	8H	21.4	22.0	21.9	22.5	23.2	25.2	25.8	25.7	26.3	27.0

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 194.786 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.)