



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L3-835-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-L3-835-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	7527	6067	5770
55	7105	5428	5205
65	6323	4666	4632
75	5295	3840	4123
85	2867	3184	3712

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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	383.410	383.410	383.410	383.410	383.410
5	384.665	382.782	380.272	379.645	380.272
10	379.017	377.134	374.624	374.624	375.879
15	370.859	368.977	366.467	367.094	367.094
20	358.309	356.427	353.289	355.799	356.427
25	342.621	340.739	340.111	341.994	343.249
30	323.168	323.168	323.168	325.679	325.051
35	302.461	302.461	302.461	304.971	306.853
40	277.360	277.988	278.615	283.008	285.518
45	250.377	252.260	254.142	259.162	261.045
50	220.884	222.767	227.159	234.689	238.454
55	192.646	193.274	201.431	207.706	213.354
60	160.015	163.153	174.448	186.371	190.136
65	127.385	132.405	145.583	158.760	164.408
70	97.264	102.284	118.600	134.915	139.935
75	66.516	75.301	93.499	111.697	119.227
80	38.906	48.318	72.791	90.989	99.147
85	13.178	30.748	53.338	71.536	79.694
90	0.000	16.943	39.533	55.849	62.124
95	0.000	8.785	26.983	43.298	48.946
100	0.000	4.393	18.825	32.003	37.651
105	0.000	2.510	13.178	23.218	28.238
110	0.000	1.883	8.785	16.943	20.080
115	0.000	1.255	5.648	11.923	15.060
120	0.000	0.000	3.138	7.530	9.413
125	0.000	0.000	2.510	5.020	6.275
130	0.000	0.000	0.000	3.138	3.765
135	0.000	0.000	0.000	0.000	2.510
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	139.99	N.A.	11.50
0-30	297.33	N.A.	24.40
0-40	487.17	N.A.	40.00
0-60	864.54	N.A.	71.00
0-80	1108.52	N.A.	91.00
0-90	1164.99	N.A.	95.70
10-90	1128.76	N.A.	92.70
20-40	347.18	N.A.	28.50
20-50	544.13	N.A.	44.70
40-70	522.17	N.A.	42.90
60-80	243.99	N.A.	20.00
70-80	99.18	N.A.	8.10
80-90	56.47	N.A.	4.60
90-110	43.39	N.A.	3.60
90-120	49.98	N.A.	4.10
90-130	52.34	N.A.	4.30
90-150	52.71	N.A.	4.30
90-180	52.71	N.A.	4.30
110-180	9.32	N.A.	0.80
0-180	1217.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.23
10-20	103.76
20-30	157.34
30-40	189.85
40-50	196.94
50-60	180.42
60-70	144.81
70-80	99.18
80-90	56.47
90-100	28.97
100-110	14.43
110-120	6.59
120-130	2.36
130-140	0.38
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

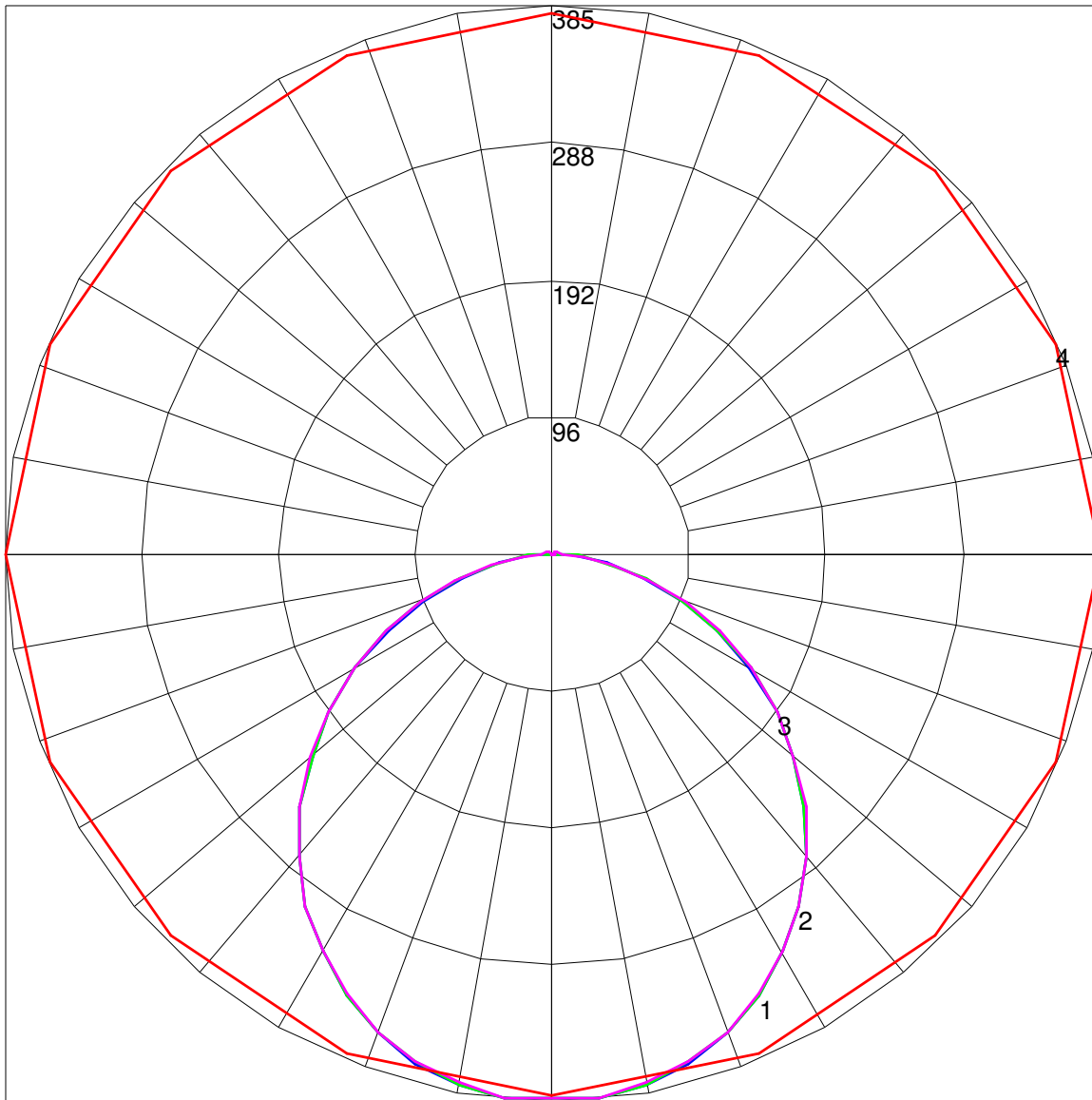
Reflectances

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					UGR Viewed Endwise				
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
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	20.8	21.7	22.2	24.0	25.0	24.5	25.5	26.0
	8H	20.3	21.2	20.9	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 = 384.665 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.)