



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-935-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-L3-935-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	6248	5035	4789
55	5897	4505	4320
65	5248	3872	3845
75	4395	3187	3422
85	2380	2643	3081

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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	318.230	318.230	318.230	318.230	318.230
5	319.272	317.709	315.626	315.105	315.626
10	314.584	313.022	310.938	310.938	311.980
15	307.813	306.251	304.167	304.688	304.688
20	297.397	295.834	293.230	295.313	295.834
25	284.376	282.813	282.292	283.855	284.897
30	268.230	268.230	268.230	270.313	269.792
35	251.042	251.042	251.042	253.126	254.688
40	230.209	230.730	231.251	234.896	236.980
45	207.813	209.376	210.938	215.105	216.667
50	183.334	184.896	188.542	194.792	197.917
55	159.896	160.417	167.188	172.396	177.084
60	132.813	135.417	144.792	154.688	157.813
65	105.729	109.896	120.834	131.771	136.459
70	80.729	84.896	98.438	111.979	116.146
75	55.208	62.500	77.604	92.709	98.959
80	32.292	40.104	60.417	75.521	82.292
85	10.938	25.521	44.271	59.375	66.146
90	0.000	14.063	32.813	46.354	51.563
95	0.000	7.292	22.396	35.938	40.625
100	0.000	3.646	15.625	26.563	31.250
105	0.000	2.083	10.938	19.271	23.438
110	0.000	1.563	7.292	14.063	16.667
115	0.000	1.042	4.688	9.896	12.500
120	0.000	0.000	2.604	6.250	7.813
125	0.000	0.000	2.083	4.167	5.208
130	0.000	0.000	0.000	2.604	3.125
135	0.000	0.000	0.000	0.000	2.083
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	116.19	N.A.	11.50
0-30	246.78	N.A.	24.40
0-40	404.35	N.A.	40.00
0-60	717.56	N.A.	71.00
0-80	920.07	N.A.	91.00
0-90	966.94	N.A.	95.70
10-90	936.87	N.A.	92.70
20-40	288.16	N.A.	28.50
20-50	451.63	N.A.	44.70
40-70	433.40	N.A.	42.90
60-80	202.51	N.A.	20.00
70-80	82.32	N.A.	8.10
80-90	46.87	N.A.	4.60
90-110	36.02	N.A.	3.60
90-120	41.48	N.A.	4.10
90-130	43.44	N.A.	4.30
90-150	43.75	N.A.	4.30
90-180	43.75	N.A.	4.30
110-180	7.74	N.A.	0.80
0-180	1010.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.07
10-20	86.12
20-30	130.59
30-40	157.57
40-50	163.46
50-60	149.75
60-70	120.19
70-80	82.32
80-90	46.87
90-100	24.04
100-110	11.97
110-120	5.47
120-130	1.96
130-140	0.31
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	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	25	50	37	29	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

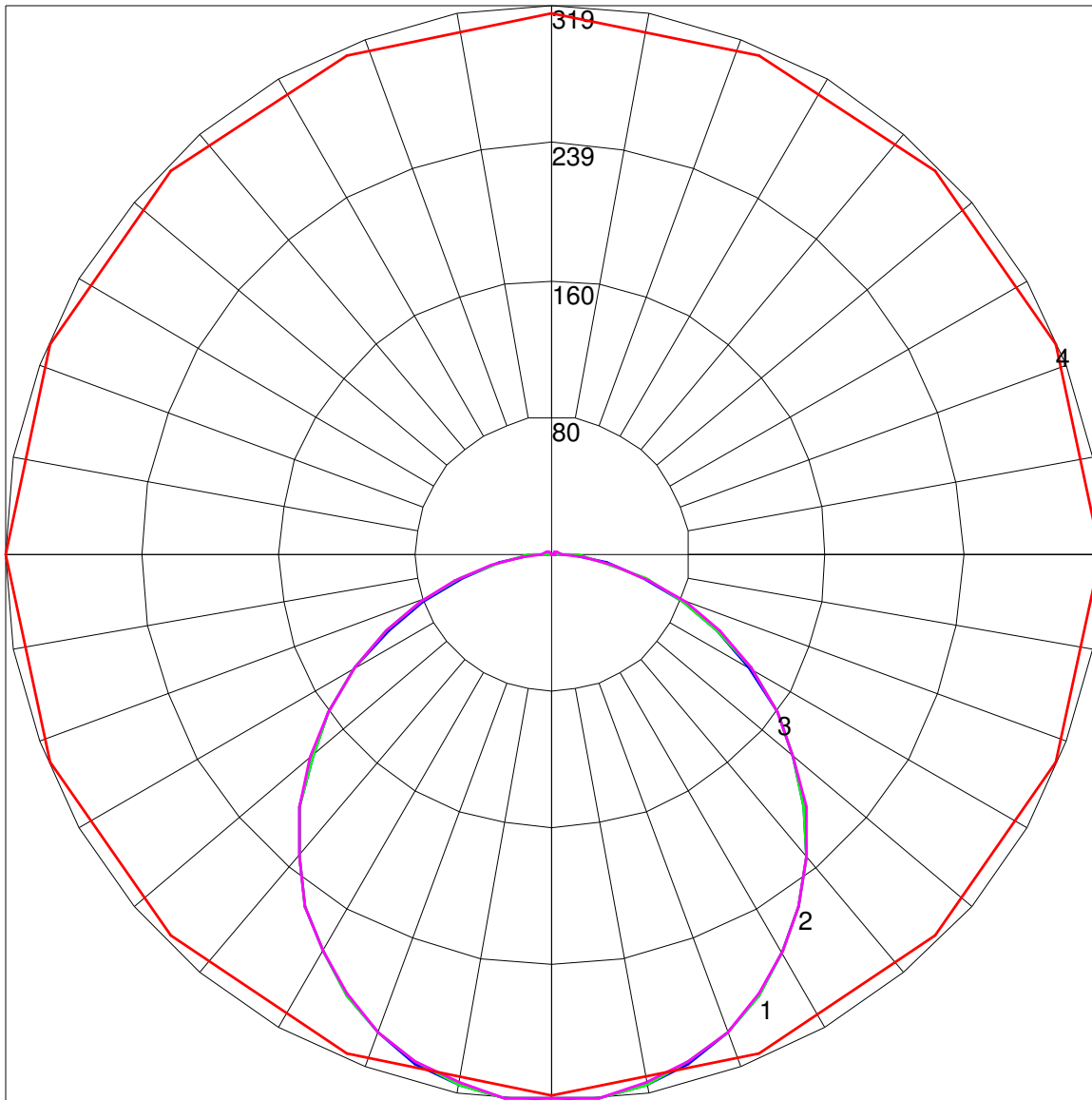
Reflectances

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	16.1	17.7	16.5	18.1	18.5	17.8	19.4	18.2	19.8	20.2
	3H	17.6	19.0	18.0	19.4	19.9	20.1	21.5	20.5	21.9	22.4
	4H	18.0	19.4	18.5	19.8	20.3	21.2	22.6	21.7	23.0	23.5
	6H	18.3	19.6	18.8	20.0	20.5	22.4	23.6	22.8	24.1	24.6
	8H	18.4	19.6	18.9	20.1	20.6	22.9	24.2	23.4	24.6	25.1
	12H	18.4	19.6	18.9	20.0	20.6	23.6	24.8	24.1	25.2	25.8
4H	2H	16.9	18.2	17.3	18.7	19.1	18.2	19.6	18.7	20.0	20.5
	3H	18.6	19.7	19.0	20.2	20.7	20.7	21.9	21.2	22.4	22.9
	4H	19.1	20.2	19.6	20.7	21.2	22.0	23.1	22.5	23.5	24.1
	6H	19.5	20.5	20.1	21.0	21.5	23.3	24.3	23.8	24.8	25.3
	8H	19.6	20.5	20.1	21.0	21.6	24.0	24.9	24.5	25.4	26.0
	12H	19.7	20.5	20.2	21.0	21.6	24.8	25.6	25.3	26.1	26.7
8H	4H	19.7	20.6	20.2	21.1	21.6	22.2	23.1	22.7	23.6	24.1
	6H	20.2	21.0	20.7	21.5	22.1	23.7	24.4	24.2	25.0	25.5
	8H	20.4	21.1	20.9	21.6	22.2	24.5	25.2	25.0	25.7	26.3
	12H	20.5	21.1	21.1	21.6	22.3	25.4	26.0	26.0	26.6	27.2
12H	4H	19.8	20.6	20.4	21.2	21.7	22.2	23.0	22.7	23.5	24.1
	6H	20.4	21.1	21.0	21.7	22.3	23.7	24.4	24.3	24.9	25.5
	8H	20.7	21.3	21.2	21.8	22.5	24.6	25.2	25.1	25.7	26.4

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 319.272 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.)