



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-927-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-L3-927-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	974
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	6022	4853	4616
55	5684	4342	4164
65	5059	3732	3706
75	4236	3072	3298
85	2293	2547	2970

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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	306.728	306.728	306.728	306.728	306.728
5	307.732	306.226	304.218	303.716	304.218
10	303.214	301.708	299.700	299.700	300.704
15	296.687	295.181	293.173	293.675	293.675
20	286.647	285.141	282.631	284.639	285.141
25	274.097	272.591	272.089	273.595	274.599
30	258.535	258.535	258.535	260.543	260.041
35	241.968	241.968	241.968	243.977	245.483
40	221.888	222.390	222.892	226.406	228.414
45	200.302	201.808	203.314	207.330	208.836
50	176.707	178.213	181.727	187.751	190.764
55	154.117	154.619	161.145	166.165	170.683
60	128.012	130.522	139.559	149.097	152.109
65	101.908	105.924	116.466	127.008	131.526
70	77.811	81.828	94.880	107.932	111.948
75	53.213	60.241	74.799	89.358	95.382
80	31.125	38.655	58.233	72.791	79.317
85	10.542	24.598	42.671	57.229	63.755
90	0.000	13.554	31.627	44.679	49.699
95	0.000	7.028	21.586	34.639	39.157
100	0.000	3.514	15.060	25.602	30.121
105	0.000	2.008	10.542	18.574	22.590
110	0.000	1.506	7.028	13.554	16.064
115	0.000	1.004	4.518	9.538	12.048
120	0.000	0.000	2.510	6.024	7.530
125	0.000	0.000	2.008	4.016	5.020
130	0.000	0.000	0.000	2.510	3.012
135	0.000	0.000	0.000	0.000	2.008
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	111.99	N.A.	11.50
0-30	237.86	N.A.	24.40
0-40	389.74	N.A.	40.00
0-60	691.63	N.A.	71.00
0-80	886.82	N.A.	91.00
0-90	931.99	N.A.	95.70
10-90	903.01	N.A.	92.70
20-40	277.75	N.A.	28.50
20-50	435.30	N.A.	44.70
40-70	417.74	N.A.	42.90
60-80	195.19	N.A.	20.00
70-80	79.34	N.A.	8.10
80-90	45.18	N.A.	4.60
90-110	34.71	N.A.	3.60
90-120	39.98	N.A.	4.10
90-130	41.87	N.A.	4.30
90-150	42.17	N.A.	4.30
90-180	42.17	N.A.	4.30
110-180	7.46	N.A.	0.80
0-180	974.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.98
10-20	83.01
20-30	125.87
30-40	151.88
40-50	157.56
50-60	144.33
60-70	115.85
70-80	79.34
80-90	45.18
90-100	23.17
100-110	11.54
110-120	5.27
120-130	1.89
130-140	0.30
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	56	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	59	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	16.0	17.6	16.4	18.0	18.4	17.7	19.3	18.1	19.7	20.1
	3H	17.5	18.9	17.9	19.3	19.8	20.0	21.4	20.4	21.9	22.3
	4H	17.9	19.3	18.4	19.7	20.2	21.1	22.5	21.6	22.9	23.4
	6H	18.2	19.5	18.7	20.0	20.4	22.3	23.5	22.7	24.0	24.5
	8H	18.3	19.5	18.8	20.0	20.5	22.9	24.1	23.4	24.6	25.0
	12H	18.3	19.5	18.8	19.9	20.5	23.5	24.7	24.0	25.1	25.7

UGR Viewed Endwise

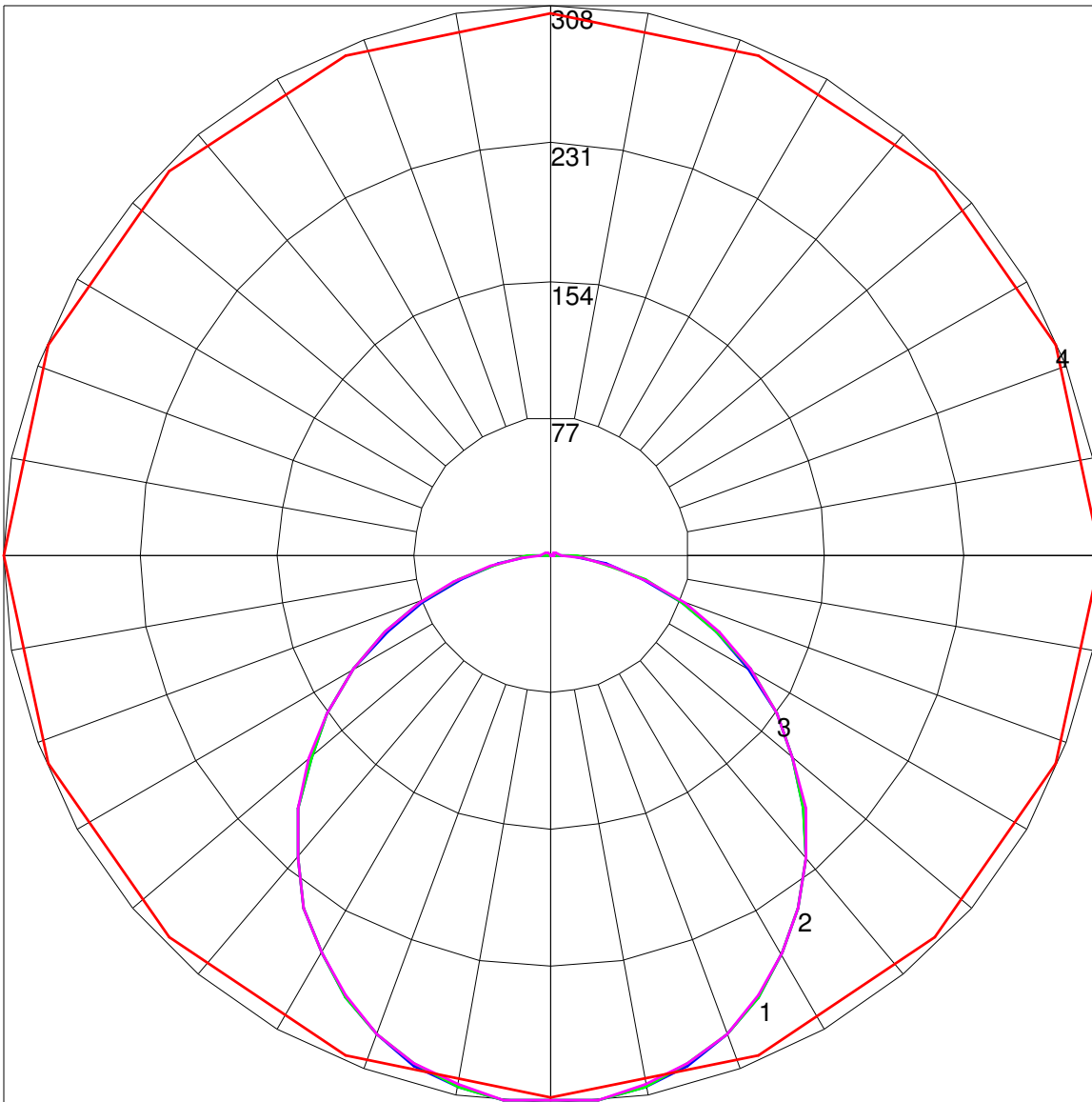
4H	2H	16.8	18.2	17.2	18.6	19.0	18.1	19.5	18.6	19.9	20.4
	3H	18.5	19.6	18.9	20.1	20.6	20.6	21.8	21.1	22.3	22.8
	4H	19.0	20.1	19.5	20.6	21.1	21.9	23.0	22.4	23.4	24.0
	6H	19.4	20.4	20.0	20.9	21.4	23.2	24.2	23.8	24.7	25.2
	8H	19.5	20.4	20.1	20.9	21.5	23.9	24.8	24.4	25.3	25.9
	12H	19.6	20.4	20.1	20.9	21.5	24.7	25.5	25.2	26.0	26.6

8H	4H	19.6	20.5	20.1	21.0	21.5	22.1	23.0	22.6	23.5	24.0
	6H	20.1	20.9	20.7	21.4	22.0	23.6	24.3	24.1	24.9	25.4
	8H	20.3	21.0	20.8	21.5	22.1	24.4	25.1	24.9	25.6	26.2
	12H	20.4	21.0	21.0	21.5	22.2	25.3	25.9	25.9	26.5	27.1

12H	4H	19.7	20.5	20.3	21.1	21.6	22.1	22.9	22.6	23.4	24.0
	6H	20.3	21.0	20.9	21.6	22.2	23.6	24.3	24.2	24.8	25.4
	8H	20.6	21.2	21.2	21.7	22.4	24.5	25.1	25.0	25.6	26.3

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 307.732 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.)