



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L3-930-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-L3-930-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	999
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	6172	4975	4732
55	5826	4451	4268
65	5185	3826	3798
75	4342	3149	3381
85	2351	2611	3044

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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	314.396	314.396	314.396	314.396	314.396
5	315.425	313.881	311.823	311.309	311.823
10	310.794	309.250	307.192	307.192	308.221
15	304.105	302.561	300.503	301.017	301.017
20	293.813	292.270	289.697	291.755	292.270
25	280.949	279.406	278.891	280.435	281.464
30	264.998	264.998	264.998	267.056	266.542
35	248.018	248.018	248.018	250.076	251.620
40	227.435	227.950	228.464	232.066	234.125
45	205.309	206.853	208.397	212.513	214.057
50	181.125	182.669	186.271	192.445	195.533
55	157.970	158.484	165.174	170.319	174.950
60	131.213	133.785	143.048	152.824	155.912
65	104.456	108.572	119.378	130.184	134.815
70	79.757	83.873	97.252	110.630	114.747
75	54.543	61.747	76.669	91.592	97.766
80	31.903	39.621	59.689	74.611	81.300
85	10.806	25.213	43.738	58.660	65.349
90	0.000	13.893	32.417	45.796	50.941
95	0.000	7.204	22.126	35.505	40.136
100	0.000	3.602	15.437	26.243	30.874
105	0.000	2.058	10.806	19.039	23.155
110	0.000	1.544	7.204	13.893	16.466
115	0.000	1.029	4.631	9.777	12.349
120	0.000	0.000	2.573	6.175	7.718
125	0.000	0.000	2.058	4.116	5.146
130	0.000	0.000	0.000	2.573	3.087
135	0.000	0.000	0.000	0.000	2.058
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	114.79	N.A.	11.50
0-30	243.81	N.A.	24.40
0-40	399.48	N.A.	40.00
0-60	708.92	N.A.	71.00
0-80	908.99	N.A.	91.00
0-90	955.29	N.A.	95.70
10-90	925.58	N.A.	92.70
20-40	284.69	N.A.	28.50
20-50	446.19	N.A.	44.70
40-70	428.18	N.A.	42.90
60-80	200.07	N.A.	20.00
70-80	81.33	N.A.	8.10
80-90	46.31	N.A.	4.60
90-110	35.58	N.A.	3.60
90-120	40.98	N.A.	4.10
90-130	42.92	N.A.	4.30
90-150	43.22	N.A.	4.30
90-180	43.22	N.A.	4.30
110-180	7.64	N.A.	0.80
0-180	998.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.71
10-20	85.08
20-30	129.02
30-40	155.68
40-50	161.49
50-60	147.94
60-70	118.74
70-80	81.33
80-90	46.31
90-100	23.75
100-110	11.83
110-120	5.40
120-130	1.93
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	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	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	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	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

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UGR TABLE - CORRECTED

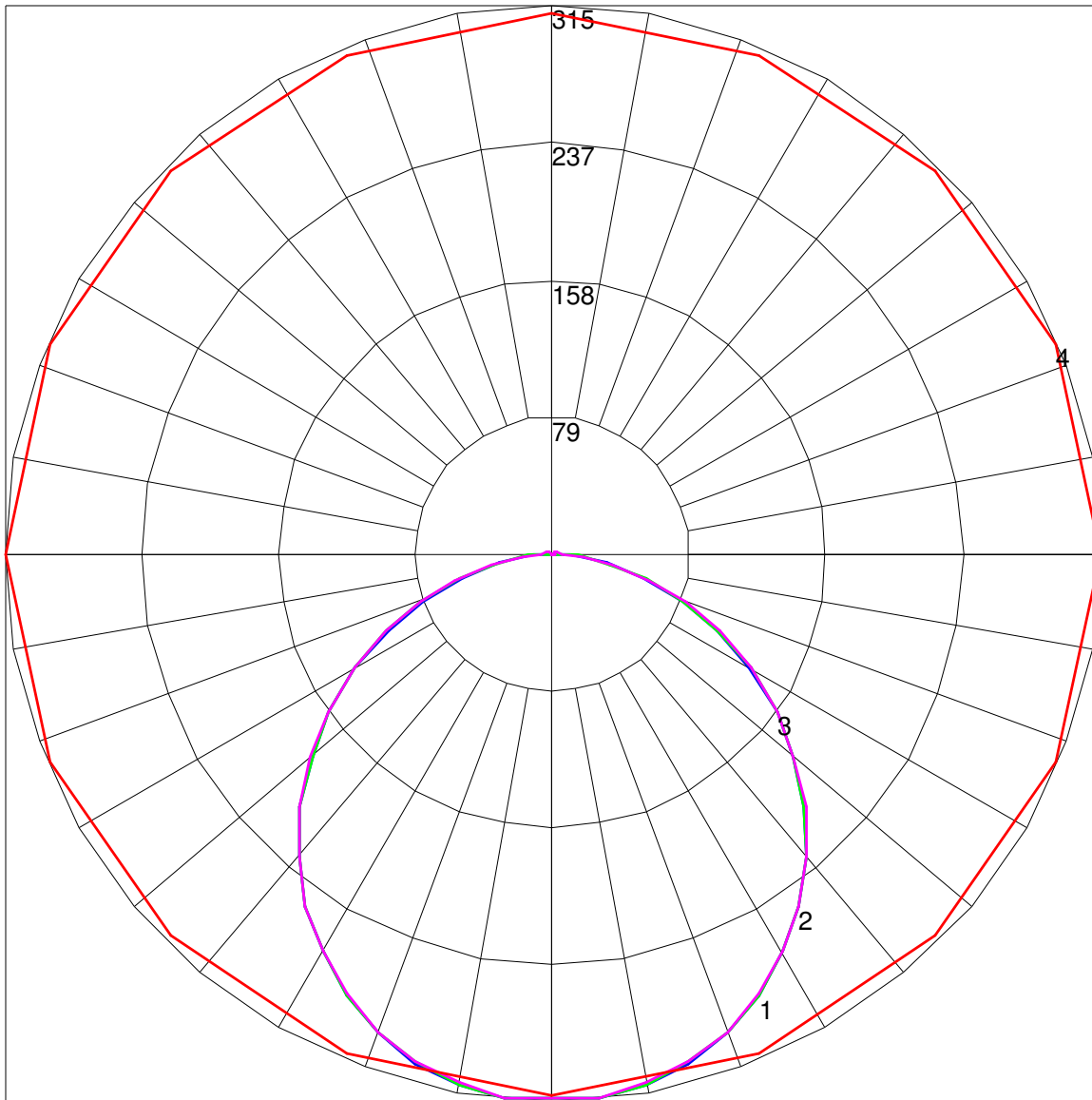
Reflectances

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	20.0	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 = 315.425 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.)