



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L5-850-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-L5-850-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2143
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	17.3
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	13246	10676	10154
55	12502	9551	9160
65	11127	8210	8151
75	9318	6758	7255
85	5045	5603	6532

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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	674.688	674.688	674.688	674.688	674.688
5	676.896	673.583	669.166	668.062	669.166
10	666.958	663.645	659.228	659.228	661.437
15	652.603	649.290	644.873	645.978	645.978
20	630.518	627.206	621.684	626.101	627.206
25	602.912	599.600	598.495	601.808	604.017
30	568.681	568.681	568.681	573.098	571.994
35	532.241	532.241	532.241	536.658	539.971
40	488.072	489.176	490.280	498.010	502.427
45	440.590	443.902	447.215	456.049	459.362
50	388.691	392.003	399.733	412.984	419.609
55	339.000	340.104	354.459	365.502	375.440
60	281.580	287.101	306.977	327.958	334.583
65	224.160	232.994	256.183	279.371	289.310
70	171.156	179.990	208.700	237.411	246.244
75	117.049	132.508	164.531	196.554	209.805
80	68.463	85.026	128.091	160.114	174.469
85	23.189	54.108	93.860	125.883	140.238
90	0.000	29.814	69.567	98.277	109.319
95	0.000	15.459	47.482	76.192	86.130
100	0.000	7.730	33.127	56.316	66.254
105	0.000	4.417	23.189	40.857	49.691
110	0.000	3.313	15.459	29.814	35.336
115	0.000	2.208	9.938	20.980	26.502
120	0.000	0.000	5.521	13.251	16.564
125	0.000	0.000	4.417	8.834	11.042
130	0.000	0.000	0.000	5.521	6.625
135	0.000	0.000	0.000	0.000	4.417
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	246.34	N.A.	11.50
0-30	523.21	N.A.	24.40
0-40	857.28	N.A.	40.00
0-60	1521.33	N.A.	71.00
0-80	1950.67	N.A.	91.00
0-90	2050.04	N.A.	95.70
10-90	1986.29	N.A.	92.70
20-40	610.94	N.A.	28.50
20-50	957.51	N.A.	44.70
40-70	918.86	N.A.	42.90
60-80	429.35	N.A.	20.00
70-80	174.53	N.A.	8.10
80-90	99.37	N.A.	4.60
90-110	76.36	N.A.	3.60
90-120	87.95	N.A.	4.10
90-130	92.10	N.A.	4.30
90-150	92.76	N.A.	4.30
90-180	92.76	N.A.	4.30
110-180	16.40	N.A.	0.80
0-180	2142.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.76
10-20	182.58
20-30	276.87
30-40	334.08
40-50	346.56
50-60	317.48
60-70	254.82
70-80	174.53
80-90	99.37
90-100	50.97
100-110	25.38
110-120	11.59
120-130	4.15
130-140	0.66
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	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	30	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

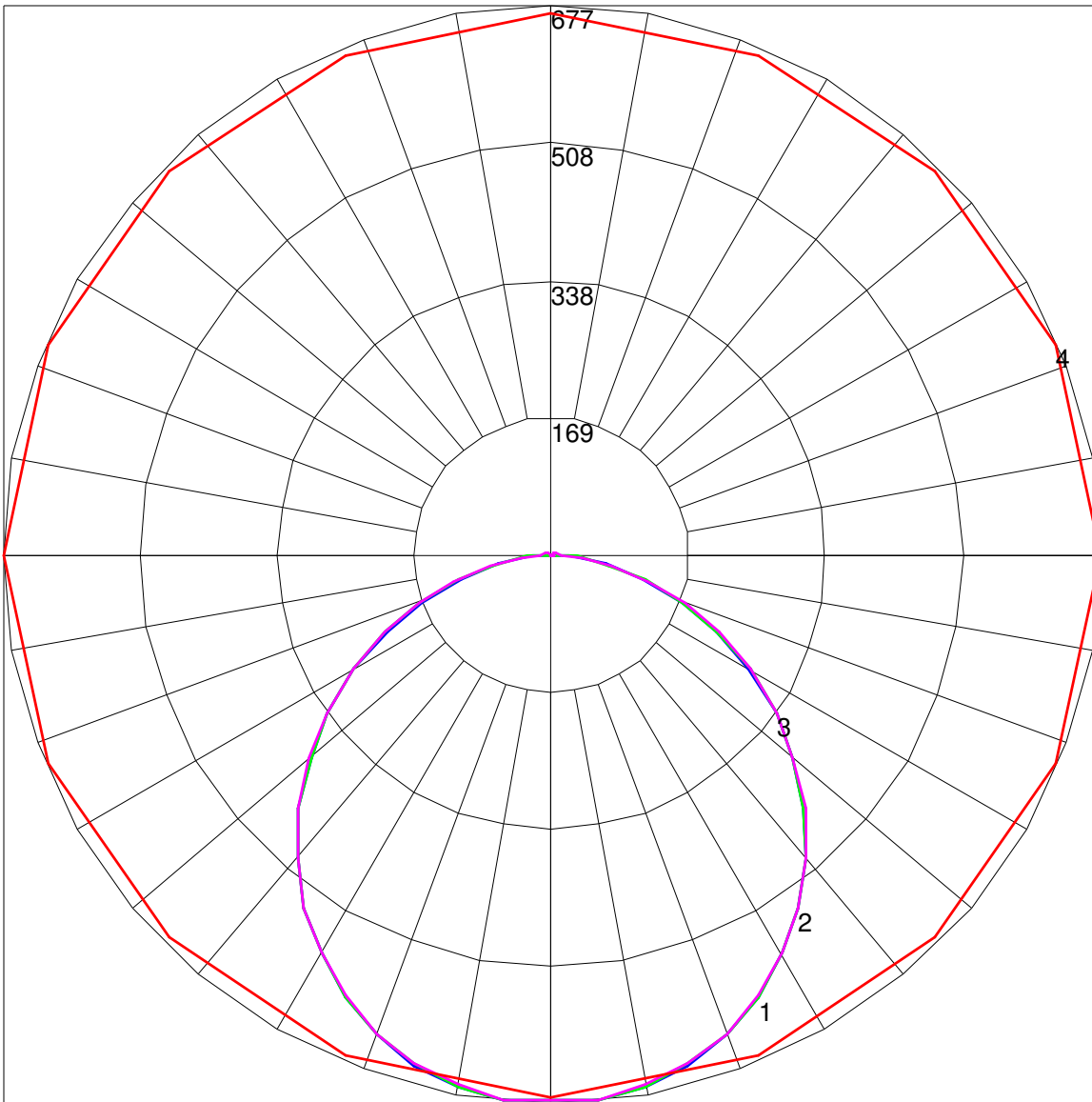
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.7	20.3	19.1	20.7	21.1	20.4	22.0	20.8	22.4	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.7	24.1	23.1	24.6	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.8	25.2	24.3	25.6	26.1
	6H	20.9	22.2	21.4	22.7	23.1	25.0	26.2	25.4	26.7	27.2
	8H	21.0	22.2	21.5	22.7	23.2	25.5	26.8	26.0	27.2	27.7
	12H	21.0	22.2	21.5	22.6	23.2	26.2	27.4	26.7	27.8	28.4
4H	2H	19.5	20.8	19.9	21.3	21.7	20.8	22.2	21.3	22.6	23.1
	3H	21.2	22.3	21.6	22.8	23.3	23.3	24.5	23.8	25.0	25.5
	4H	21.7	22.8	22.2	23.3	23.8	24.6	25.7	25.1	26.1	26.7
	6H	22.1	23.1	22.7	23.6	24.1	25.9	26.9	26.5	27.4	27.9
	8H	22.2	23.1	22.8	23.6	24.2	26.6	27.5	27.1	28.0	28.6
	12H	22.3	23.1	22.8	23.6	24.2	27.4	28.2	27.9	28.7	29.3
8H	4H	22.3	23.2	22.8	23.7	24.2	24.8	25.7	25.3	26.2	26.7
	6H	22.8	23.6	23.4	24.1	24.7	26.3	27.0	26.8	27.6	28.1
	8H	23.0	23.7	23.5	24.2	24.8	27.1	27.8	27.6	28.3	28.9
	12H	23.1	23.7	23.7	24.2	24.9	28.0	28.6	28.6	29.2	29.8
12H	4H	22.4	23.2	23.0	23.8	24.3	24.8	25.6	25.3	26.1	26.7
	6H	23.0	23.7	23.6	24.3	24.9	26.3	27.0	26.9	27.5	28.1
	8H	23.3	23.9	23.8	24.4	25.1	27.2	27.8	27.7	28.3	29.0

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 676.896 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.)