



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L3-950-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] 96 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-8-L3-950-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	21.1
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)	8.00 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	7103	5711	5414
55	6721	5114	4884
65	6007	4402	4346
75	5075	3631	3868
85	2859	3022	3483

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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	719.450	719.450	719.450	719.450	719.450
5	721.805	718.273	713.563	712.385	713.563
10	711.208	707.675	702.965	702.965	705.320
15	695.900	692.368	687.658	688.835	688.835
20	672.350	668.818	662.930	667.640	668.818
25	642.913	639.380	638.203	641.735	644.090
30	606.410	606.410	606.410	611.120	609.943
35	567.553	567.553	567.553	572.263	575.796
40	520.453	521.631	522.808	531.051	535.761
45	469.821	473.353	476.886	486.306	489.838
50	414.479	418.011	426.254	440.383	447.448
55	361.491	362.669	377.976	389.751	400.349
60	300.261	306.149	327.344	349.716	356.781
65	239.032	248.452	273.179	297.906	308.504
70	182.512	191.932	222.547	253.162	262.582
75	124.815	141.300	175.447	209.594	223.724
80	73.005	90.667	136.590	170.737	186.044
85	24.727	57.697	100.087	134.235	149.542
90	0.000	31.792	74.182	104.797	116.572
95	0.000	16.485	50.632	81.247	91.845
100	0.000	8.242	35.325	60.052	70.650
105	0.000	4.710	24.727	43.567	52.987
110	0.000	3.532	16.485	31.792	37.680
115	0.000	2.355	10.597	22.372	28.260
120	0.000	0.000	5.887	14.130	17.662
125	0.000	0.000	4.710	9.420	11.775
130	0.000	0.000	0.000	5.887	7.065
135	0.000	0.000	0.000	0.000	4.710
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	262.68	N.A.	11.50
0-30	557.92	N.A.	24.40
0-40	914.16	N.A.	40.00
0-60	1622.26	N.A.	71.00
0-80	2080.09	N.A.	91.00
0-90	2186.05	N.A.	95.70
10-90	2118.07	N.A.	92.70
20-40	651.47	N.A.	28.50
20-50	1021.03	N.A.	44.70
40-70	979.83	N.A.	42.90
60-80	457.83	N.A.	20.00
70-80	186.11	N.A.	8.10
80-90	105.96	N.A.	4.60
90-110	81.42	N.A.	3.60
90-120	93.78	N.A.	4.10
90-130	98.21	N.A.	4.30
90-150	98.91	N.A.	4.30
90-180	98.91	N.A.	4.30
110-180	17.49	N.A.	0.80
0-180	2284.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.99
10-20	194.70
20-30	295.23
30-40	356.24
40-50	369.56
50-60	338.55
60-70	271.73
70-80	186.11
80-90	105.96
90-100	54.35
100-110	27.07
110-120	12.36
120-130	4.42
130-140	0.70
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

X=2H	Y=2H	16.6	18.2	17.0	18.6	19.0	18.3	19.9	18.7	20.3	20.7
	3H	18.1	19.5	18.5	19.9	20.4	20.6	22.1	21.1	22.5	22.9
	4H	18.5	19.9	19.0	20.3	20.8	21.7	23.1	22.2	23.5	24.0
	6H	18.8	20.1	19.3	20.5	21.0	22.9	24.2	23.4	24.6	25.1
	8H	18.9	20.1	19.4	20.6	21.1	23.5	24.7	24.0	25.2	25.7
	12H	18.9	20.1	19.4	20.5	21.1	24.2	25.4	24.7	25.8	26.3

UGR Viewed Endwise

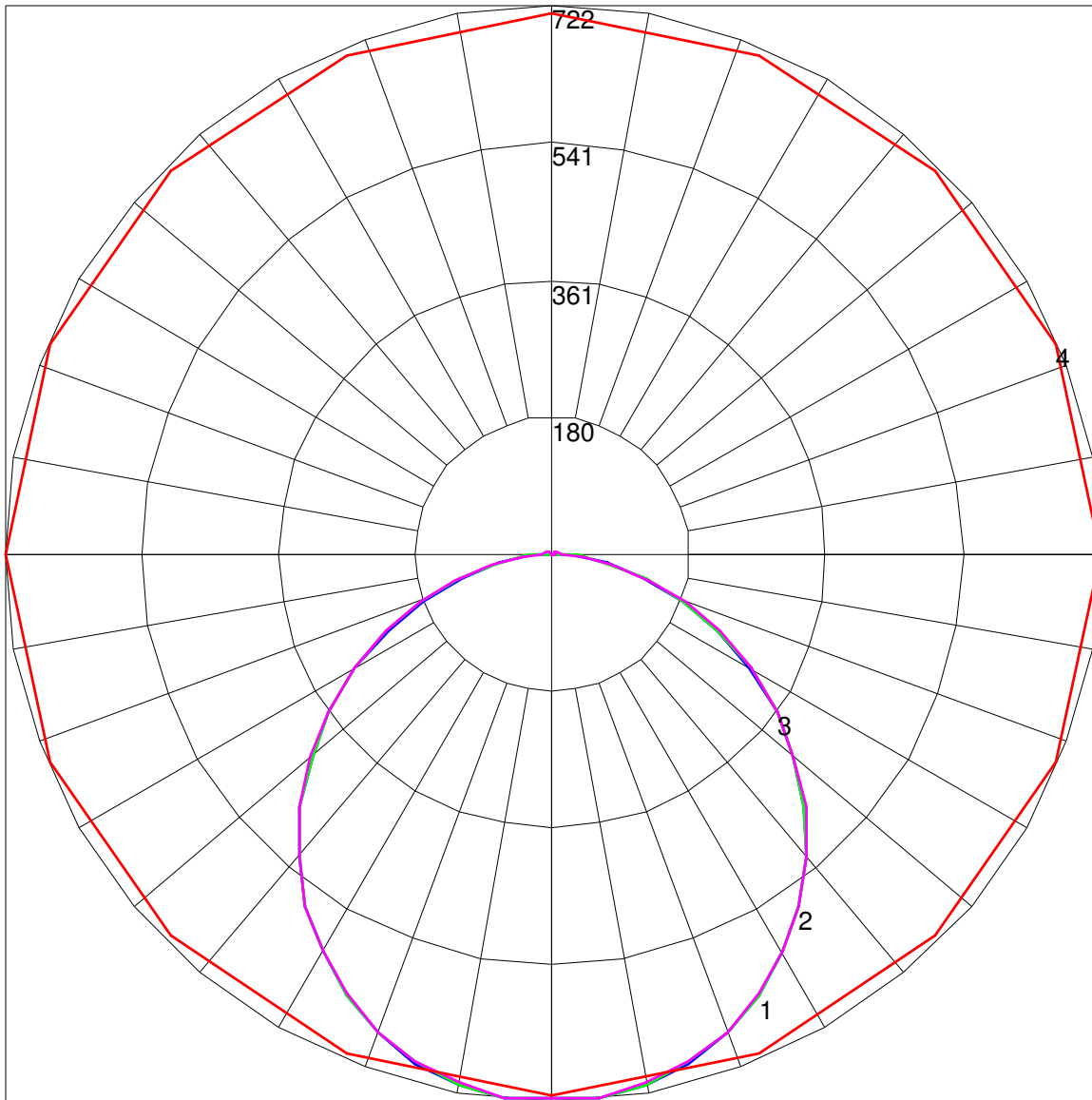
4H	2H	17.4	18.8	17.8	19.2	19.6	18.7	20.1	19.2	20.5	21.0
	3H	19.1	20.2	19.5	20.7	21.2	21.3	22.4	21.7	22.9	23.4
	4H	19.6	20.7	20.1	21.2	21.7	22.5	23.6	23.0	24.1	24.6
	6H	20.0	21.0	20.6	21.5	22.0	23.9	24.8	24.4	25.3	25.9
	8H	20.1	21.0	20.7	21.5	22.1	24.6	25.5	25.1	26.0	26.5
	12H	20.2	21.0	20.7	21.5	22.1	25.4	26.2	25.9	26.7	27.3

8H	4H	20.2	21.1	20.7	21.6	22.1	22.7	23.6	23.2	24.1	24.7
	6H	20.7	21.5	21.3	22.0	22.6	24.2	25.0	24.7	25.5	26.1
	8H	20.9	21.6	21.4	22.1	22.7	25.0	25.7	25.6	26.3	26.9
	12H	21.0	21.6	21.6	22.2	22.8	26.0	26.6	26.6	27.1	27.8

12H	4H	20.3	21.1	20.9	21.7	22.2	22.7	23.5	23.3	24.1	24.6
	6H	21.0	21.6	21.5	22.2	22.8	24.2	24.9	24.8	25.5	26.1
	8H	21.2	21.8	21.8	22.3	23.0	25.1	25.7	25.7	26.3	26.9

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 721.805 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.)