



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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] 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-L3-935-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	6625	5326	5049
55	6268	4770	4554
65	5602	4105	4053
75	4733	3386	3607
85	2666	2818	3248

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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	670.948	670.948	670.948	670.948	670.948
5	673.144	669.850	665.457	664.359	665.457
10	663.261	659.967	655.574	655.574	657.770
15	648.985	645.691	641.299	642.397	642.397
20	627.023	623.729	618.238	622.631	623.729
25	599.570	596.276	595.178	598.472	600.668
30	565.529	565.529	565.529	569.921	568.823
35	529.291	529.291	529.291	533.683	536.978
40	485.366	486.465	487.563	495.249	499.642
45	438.147	441.442	444.736	453.521	456.815
50	386.536	389.830	397.517	410.695	417.283
55	337.121	338.219	352.495	363.476	373.359
60	280.019	285.510	305.276	326.140	332.729
65	222.917	231.702	254.762	277.823	287.706
70	170.208	178.993	207.544	236.095	244.879
75	116.400	131.774	163.619	195.464	208.642
80	68.083	84.555	127.381	159.227	173.502
85	23.060	53.808	93.340	125.185	139.460
90	0.000	29.649	69.181	97.732	108.713
95	0.000	15.374	47.219	75.770	85.653
100	0.000	7.687	32.943	56.004	65.887
105	0.000	4.392	23.060	40.630	49.415
110	0.000	3.294	15.374	29.649	35.140
115	0.000	2.196	9.883	20.864	26.355
120	0.000	0.000	5.491	13.177	16.472
125	0.000	0.000	4.392	8.785	10.981
130	0.000	0.000	0.000	5.491	6.589
135	0.000	0.000	0.000	0.000	4.392
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	244.97	N.A.	11.50
0-30	520.31	N.A.	24.40
0-40	852.53	N.A.	40.00
0-60	1512.89	N.A.	71.00
0-80	1939.86	N.A.	91.00
0-90	2038.68	N.A.	95.70
10-90	1975.28	N.A.	92.70
20-40	607.55	N.A.	28.50
20-50	952.20	N.A.	44.70
40-70	913.77	N.A.	42.90
60-80	426.97	N.A.	20.00
70-80	173.56	N.A.	8.10
80-90	98.82	N.A.	4.60
90-110	75.93	N.A.	3.60
90-120	87.46	N.A.	4.10
90-130	91.59	N.A.	4.30
90-150	92.24	N.A.	4.30
90-180	92.24	N.A.	4.30
110-180	16.31	N.A.	0.80
0-180	2130.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.40
10-20	181.57
20-30	275.33
30-40	332.22
40-50	344.64
50-60	315.72
60-70	253.41
70-80	173.56
80-90	98.82
90-100	50.69
100-110	25.24
110-120	11.53
120-130	4.13
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

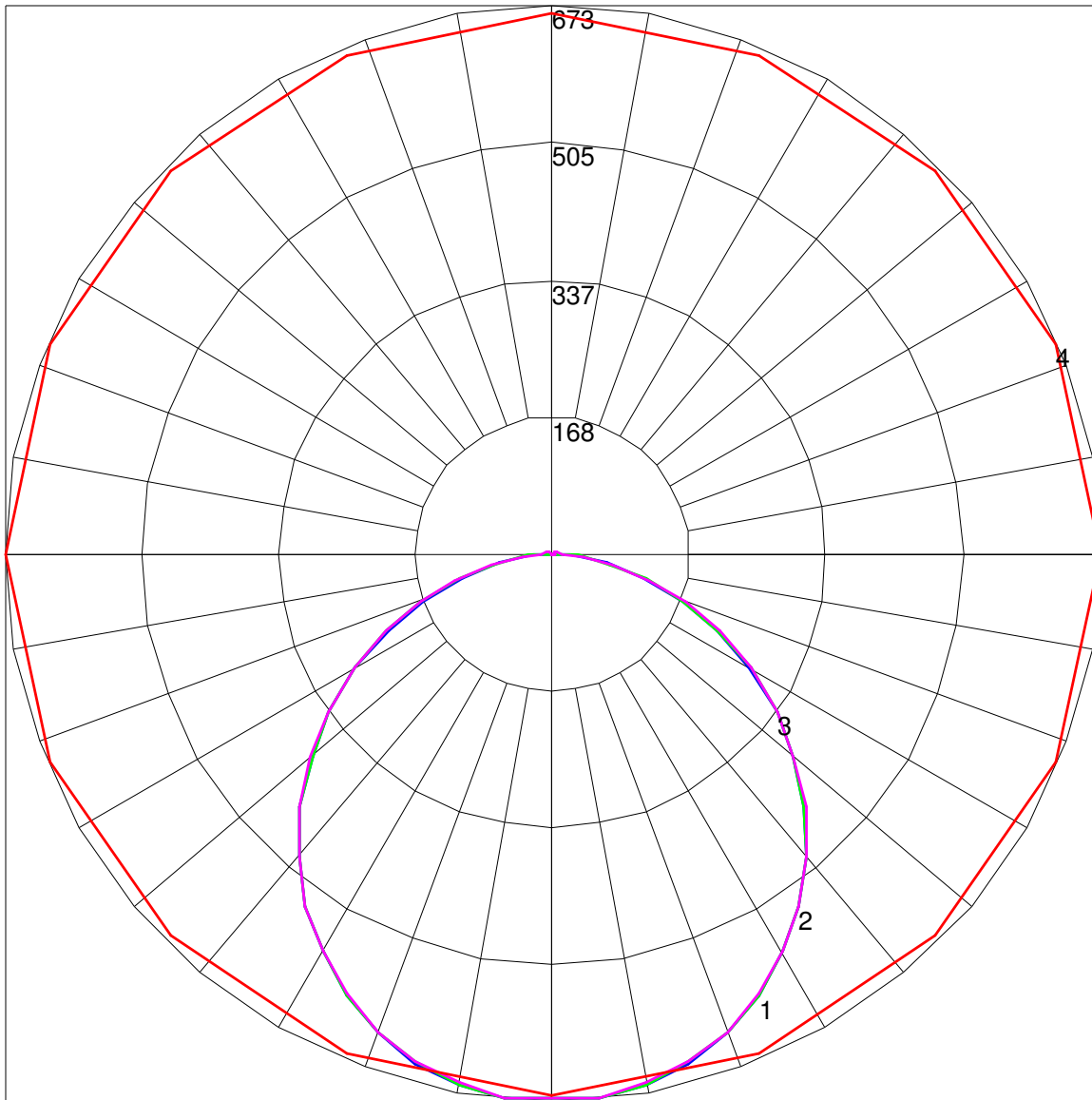
Reflectances

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	16.3	17.9	16.7	18.3	18.7	18.0	19.6	18.4	20.0	20.4
	3H	17.8	19.2	18.2	19.6	20.1	20.3	21.8	20.8	22.2	22.6
	4H	18.2	19.6	18.7	20.0	20.5	21.4	22.8	21.9	23.2	23.7
	6H	18.5	19.8	19.0	20.2	20.7	22.6	23.9	23.1	24.3	24.8
	8H	18.6	19.8	19.1	20.3	20.8	23.2	24.4	23.7	24.9	25.4
	12H	18.6	19.8	19.1	20.2	20.8	23.9	25.1	24.4	25.5	26.0
4H	2H	17.1	18.5	17.5	18.9	19.3	18.4	19.8	18.9	20.2	20.7
	3H	18.8	19.9	19.2	20.4	20.9	21.0	22.1	21.4	22.6	23.1
	4H	19.3	20.4	19.8	20.9	21.4	22.2	23.3	22.7	23.8	24.3
	6H	19.7	20.7	20.3	21.2	21.7	23.6	24.5	24.1	25.0	25.6
	8H	19.8	20.7	20.4	21.2	21.8	24.3	25.2	24.8	25.7	26.2
	12H	19.9	20.7	20.4	21.2	21.8	25.1	25.9	25.6	26.4	27.0
8H	4H	19.9	20.8	20.4	21.3	21.8	22.4	23.3	22.9	23.8	24.4
	6H	20.4	21.2	21.0	21.7	22.3	23.9	24.7	24.4	25.2	25.8
	8H	20.6	21.3	21.1	21.8	22.4	24.7	25.4	25.3	26.0	26.6
	12H	20.7	21.3	21.3	21.9	22.5	25.7	26.3	26.3	26.8	27.5
12H	4H	20.0	20.8	20.6	21.4	21.9	22.4	23.2	23.0	23.8	24.3
	6H	20.7	21.3	21.2	21.9	22.5	23.9	24.6	24.5	25.2	25.8
	8H	20.9	21.5	21.5	22.0	22.7	24.8	25.4	25.4	26.0	26.6

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 673.144 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.)