



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L5-930-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] 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-L5-930-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3315
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	35.2
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	10306	8286	7855
55	9752	7420	7086
65	8715	6387	6305
75	7363	5268	5612
85	4148	4385	5053

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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	1043.856	1043.856	1043.856	1043.856	1043.856
5	1047.273	1042.148	1035.314	1033.606	1035.314
10	1031.897	1026.772	1019.938	1019.938	1023.355
15	1009.687	1004.562	997.728	999.437	999.437
20	975.519	970.393	961.851	968.685	970.393
25	932.808	927.682	925.974	931.099	934.516
30	879.846	879.846	879.846	886.680	884.971
35	823.468	823.468	823.468	830.301	835.427
40	755.130	756.838	758.547	770.506	777.340
45	681.667	686.792	691.918	705.585	710.711
50	601.371	606.496	618.455	638.956	649.207
55	524.491	526.199	548.409	565.493	580.869
60	435.652	444.194	474.946	507.406	517.657
65	346.813	360.481	396.358	432.235	447.611
70	264.808	278.476	322.895	367.314	380.982
75	181.095	205.013	254.557	304.102	324.603
80	105.923	131.550	198.179	247.724	269.933
85	35.877	83.714	145.217	194.762	216.972
90	0.000	46.128	107.632	152.051	169.135
95	0.000	23.918	73.463	117.882	133.258
100	0.000	11.959	51.253	87.130	102.506
105	0.000	6.834	35.877	63.212	76.880
110	0.000	5.125	23.918	46.128	54.670
115	0.000	3.417	15.376	32.460	41.003
120	0.000	0.000	8.542	20.501	25.627
125	0.000	0.000	6.834	13.668	17.084
130	0.000	0.000	0.000	8.542	10.251
135	0.000	0.000	0.000	0.000	6.834
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	381.13	N.A.	11.50
0-30	809.49	N.A.	24.40
0-40	1326.36	N.A.	40.00
0-60	2353.75	N.A.	71.00
0-80	3018.02	N.A.	91.00
0-90	3171.76	N.A.	95.70
10-90	3073.12	N.A.	92.70
20-40	945.23	N.A.	28.50
20-50	1481.42	N.A.	44.70
40-70	1421.64	N.A.	42.90
60-80	664.27	N.A.	20.00
70-80	270.02	N.A.	8.10
80-90	153.74	N.A.	4.60
90-110	118.14	N.A.	3.60
90-120	136.07	N.A.	4.10
90-130	142.49	N.A.	4.30
90-150	143.51	N.A.	4.30
90-180	143.51	N.A.	4.30
110-180	25.38	N.A.	0.80
0-180	3315.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.64
10-20	282.49
20-30	428.36
30-40	516.87
40-50	536.19
50-60	491.20
60-70	394.25
70-80	270.02
80-90	153.74
90-100	78.86
100-110	39.27
110-120	17.94
120-130	6.42
130-140	1.02
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	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

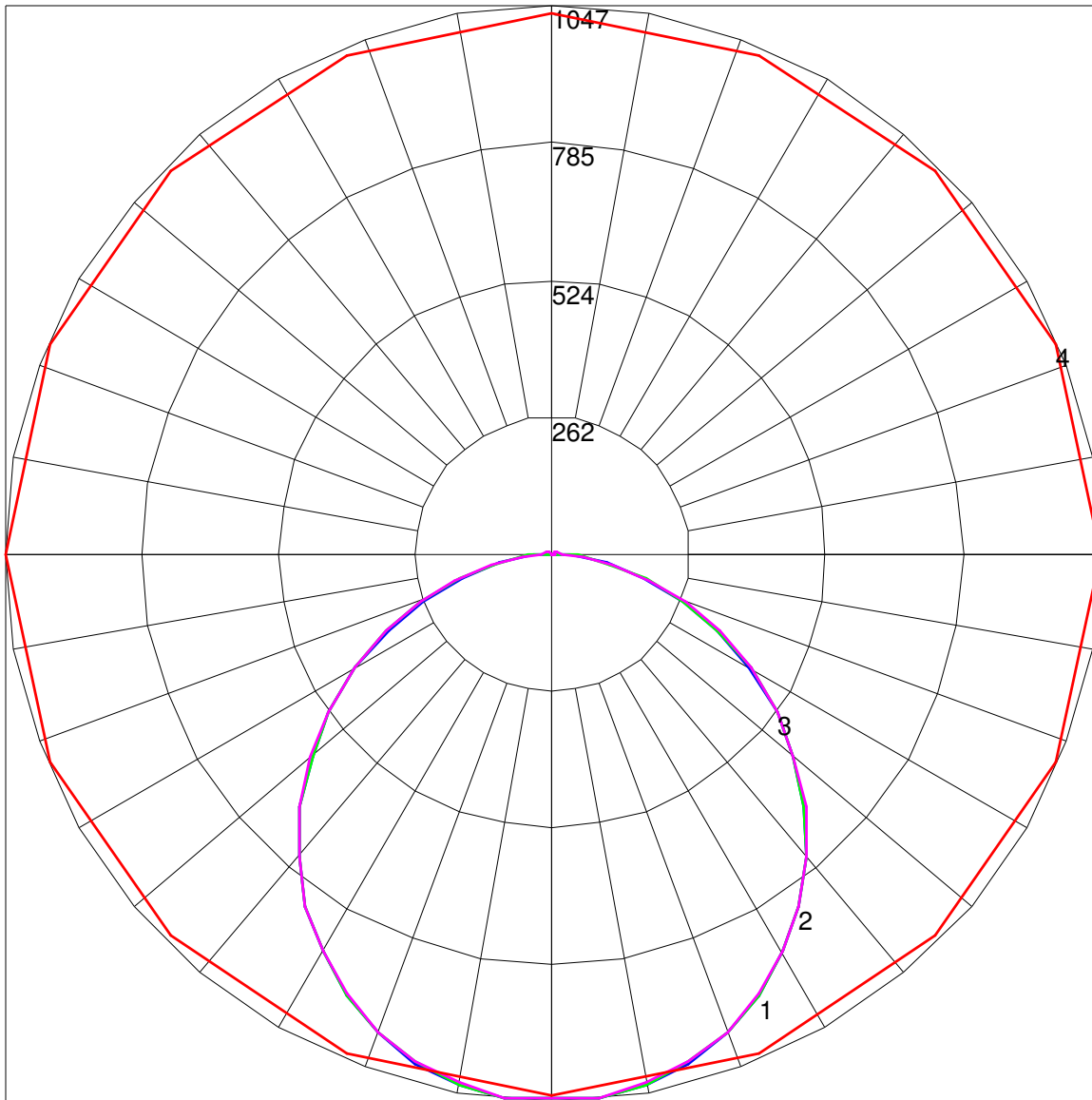
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.5	18.3	19.9	20.3	19.6	21.2	20.0	21.6	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.9	23.4	22.4	23.8	24.2
	4H	19.8	21.2	20.3	21.6	22.1	23.0	24.4	23.5	24.8	25.3
	6H	20.1	21.4	20.6	21.8	22.3	24.2	25.5	24.7	25.9	26.4
	8H	20.2	21.4	20.7	21.9	22.4	24.8	26.0	25.3	26.5	27.0
	12H	20.2	21.4	20.7	21.8	22.4	25.5	26.7	26.0	27.1	27.6
4H	2H	18.7	20.1	19.1	20.5	21.0	20.0	21.4	20.5	21.8	22.3
	3H	20.4	21.5	20.8	22.0	22.5	22.6	23.7	23.0	24.2	24.7
	4H	20.9	22.0	21.4	22.5	23.0	23.8	24.9	24.3	25.4	25.9
	6H	21.3	22.3	21.9	22.8	23.3	25.2	26.1	25.7	26.6	27.2
	8H	21.4	22.3	22.0	22.8	23.4	25.9	26.8	26.4	27.3	27.8
	12H	21.5	22.3	22.0	22.8	23.4	26.7	27.5	27.2	28.0	28.6
8H	4H	21.5	22.4	22.0	22.9	23.4	24.0	24.9	24.5	25.4	26.0
	6H	22.0	22.8	22.6	23.3	23.9	25.5	26.3	26.0	26.8	27.4
	8H	22.2	22.9	22.7	23.4	24.0	26.3	27.0	26.9	27.6	28.2
	12H	22.3	22.9	22.9	23.5	24.1	27.3	27.9	27.9	28.4	29.1
12H	4H	21.6	22.4	22.2	23.0	23.5	24.0	24.8	24.6	25.4	25.9
	6H	22.3	22.9	22.8	23.5	24.1	25.5	26.2	26.1	26.8	27.4
	8H	22.5	23.1	23.1	23.6	24.3	26.4	27.0	27.0	27.6	28.2

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1047.273 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.)