



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L3-927-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-L3-927-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	6385	5133	4866
55	6041	4597	4390
65	5399	3957	3906
75	4562	3264	3477
85	2570	2716	3131

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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	646.697	646.697	646.697	646.697	646.697
5	648.814	645.639	641.405	640.347	641.405
10	639.288	636.113	631.879	631.879	633.996
15	625.529	622.353	618.120	619.178	619.178
20	604.360	601.185	595.893	600.126	601.185
25	577.900	574.724	573.666	576.841	578.958
30	545.088	545.088	545.088	549.322	548.264
35	510.160	510.160	510.160	514.394	517.569
40	467.823	468.882	469.940	477.349	481.583
45	422.311	425.486	428.662	437.129	440.304
50	372.565	375.741	383.149	395.851	402.201
55	324.936	325.995	339.754	350.338	359.864
60	269.898	275.190	294.242	314.352	320.702
65	214.860	223.327	245.554	267.781	277.307
70	164.056	172.523	200.042	227.561	236.029
75	112.193	127.011	157.705	188.399	201.101
80	65.622	81.499	122.777	153.471	167.231
85	22.227	51.863	89.966	120.660	134.420
90	0.000	28.577	66.681	94.200	104.784
95	0.000	14.818	45.512	73.031	82.557
100	0.000	7.409	31.753	53.980	63.505
105	0.000	4.234	22.227	39.162	47.629
110	0.000	3.175	14.818	28.577	33.870
115	0.000	2.117	9.526	20.110	25.402
120	0.000	0.000	5.292	12.701	15.876
125	0.000	0.000	4.234	8.467	10.584
130	0.000	0.000	0.000	5.292	6.351
135	0.000	0.000	0.000	0.000	4.234
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	236.12	N.A.	11.50
0-30	501.50	N.A.	24.40
0-40	821.72	N.A.	40.00
0-60	1458.21	N.A.	71.00
0-80	1869.75	N.A.	91.00
0-90	1964.99	N.A.	95.70
10-90	1903.88	N.A.	92.70
20-40	585.60	N.A.	28.50
20-50	917.78	N.A.	44.70
40-70	880.74	N.A.	42.90
60-80	411.53	N.A.	20.00
70-80	167.29	N.A.	8.10
80-90	95.25	N.A.	4.60
90-110	73.19	N.A.	3.60
90-120	84.30	N.A.	4.10
90-130	88.28	N.A.	4.30
90-150	88.91	N.A.	4.30
90-180	88.91	N.A.	4.30
110-180	15.72	N.A.	0.80
0-180	2053.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.11
10-20	175.01
20-30	265.38
30-40	320.22
40-50	332.19
50-60	304.31
60-70	244.25
70-80	167.29
80-90	95.25
90-100	48.86
100-110	24.33
110-120	11.11
120-130	3.98
130-140	0.63
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

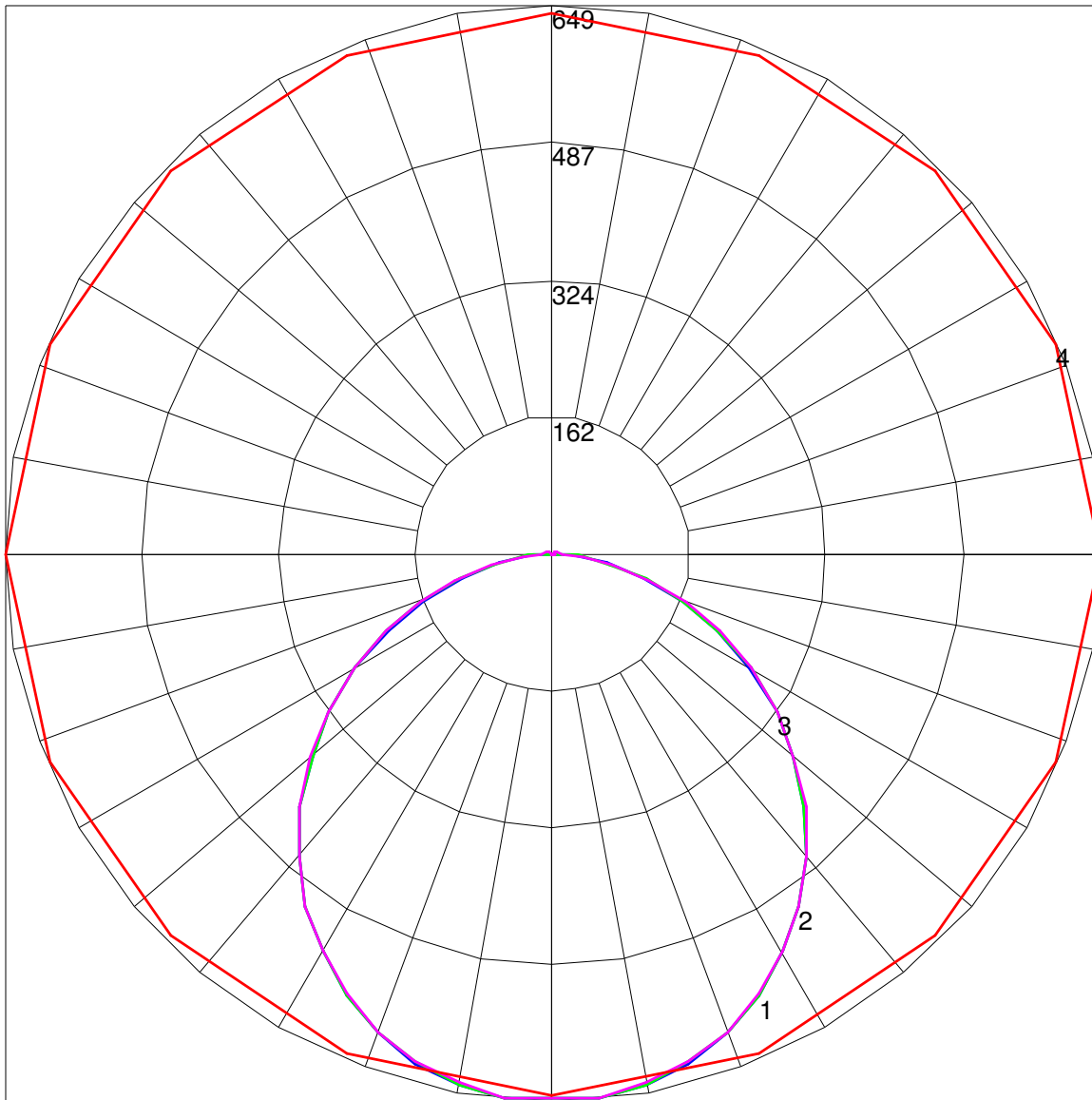
Reflectances

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	16.2	17.8	16.6	18.2	18.6	17.9	19.5	18.3	19.9	20.3
	3H	17.7	19.1	18.1	19.5	20.0	20.2	21.7	20.7	22.1	22.5
	4H	18.1	19.5	18.6	19.9	20.4	21.3	22.7	21.8	23.1	23.6
	6H	18.4	19.7	18.9	20.1	20.6	22.5	23.8	23.0	24.2	24.7
	8H	18.5	19.7	19.0	20.2	20.7	23.1	24.3	23.6	24.8	25.3
	12H	18.5	19.7	19.0	20.1	20.7	23.8	25.0	24.3	25.4	25.9
4H	2H	17.0	18.4	17.4	18.8	19.2	18.3	19.7	18.8	20.1	20.6
	3H	18.7	19.8	19.1	20.3	20.8	20.9	22.0	21.3	22.5	23.0
	4H	19.2	20.3	19.7	20.8	21.3	22.1	23.2	22.6	23.7	24.2
	6H	19.6	20.6	20.2	21.1	21.6	23.5	24.4	24.0	24.9	25.5
	8H	19.7	20.6	20.3	21.1	21.7	24.2	25.1	24.7	25.6	26.1
	12H	19.8	20.6	20.3	21.1	21.7	25.0	25.8	25.5	26.3	26.9
8H	4H	19.8	20.7	20.3	21.2	21.7	22.3	23.2	22.8	23.7	24.3
	6H	20.3	21.1	20.9	21.6	22.2	23.8	24.6	24.3	25.1	25.7
	8H	20.5	21.2	21.0	21.7	22.3	24.6	25.3	25.2	25.9	26.5
	12H	20.6	21.2	21.2	21.8	22.4	25.6	26.2	26.2	26.7	27.4
12H	4H	19.9	20.7	20.5	21.3	21.8	22.3	23.1	22.9	23.7	24.2
	6H	20.6	21.2	21.1	21.8	22.4	23.8	24.5	24.4	25.1	25.7
	8H	20.8	21.4	21.4	21.9	22.6	24.7	25.3	25.3	25.9	26.5

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 648.814 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.)