



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L3-940-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-L3-940-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2208
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	6864	5518	5231
55	6495	4942	4719
65	5804	4254	4199
75	4904	3508	3738
85	2763	2920	3366

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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	695.199	695.199	695.199	695.199	695.199
5	697.474	694.061	689.510	688.372	689.510
10	687.234	683.821	679.270	679.270	681.545
15	672.443	669.029	664.478	665.616	665.616
20	649.687	646.273	640.584	645.135	646.273
25	621.242	617.828	616.690	620.104	622.379
30	585.970	585.970	585.970	590.521	589.383
35	548.422	548.422	548.422	552.973	556.387
40	502.910	504.048	505.185	513.150	517.701
45	453.984	457.398	460.811	469.913	473.327
50	400.507	403.921	411.885	425.539	432.366
55	349.306	350.444	365.235	376.613	386.854
60	290.140	295.829	316.310	337.928	344.755
65	230.974	240.077	263.971	287.865	298.105
70	176.360	185.462	215.045	244.628	253.731
75	120.607	136.537	169.533	202.529	216.183
80	70.544	87.611	131.985	164.982	179.773
85	23.894	55.752	96.713	129.710	144.501
90	0.000	30.721	71.682	101.265	112.643
95	0.000	15.929	48.926	78.509	88.749
100	0.000	7.965	34.134	58.028	68.268
105	0.000	4.551	23.894	42.099	51.201
110	0.000	3.413	15.929	30.721	36.410
115	0.000	2.276	10.240	21.618	27.307
120	0.000	0.000	5.689	13.654	17.067
125	0.000	0.000	4.551	9.102	11.378
130	0.000	0.000	0.000	5.689	6.827
135	0.000	0.000	0.000	0.000	4.551
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	253.83	N.A.	11.50
0-30	539.11	N.A.	24.40
0-40	883.34	N.A.	40.00
0-60	1567.58	N.A.	71.00
0-80	2009.98	N.A.	91.00
0-90	2112.37	N.A.	95.70
10-90	2046.67	N.A.	92.70
20-40	629.51	N.A.	28.50
20-50	986.61	N.A.	44.70
40-70	946.80	N.A.	42.90
60-80	442.40	N.A.	20.00
70-80	179.83	N.A.	8.10
80-90	102.39	N.A.	4.60
90-110	78.68	N.A.	3.60
90-120	90.62	N.A.	4.10
90-130	94.90	N.A.	4.30
90-150	95.58	N.A.	4.30
90-180	95.58	N.A.	4.30
110-180	16.90	N.A.	0.80
0-180	2207.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.69
10-20	188.14
20-30	285.28
30-40	344.23
40-50	357.10
50-60	327.13
60-70	262.57
70-80	179.83
80-90	102.39
90-100	52.52
100-110	26.16
110-120	11.95
120-130	4.27
130-140	0.68
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

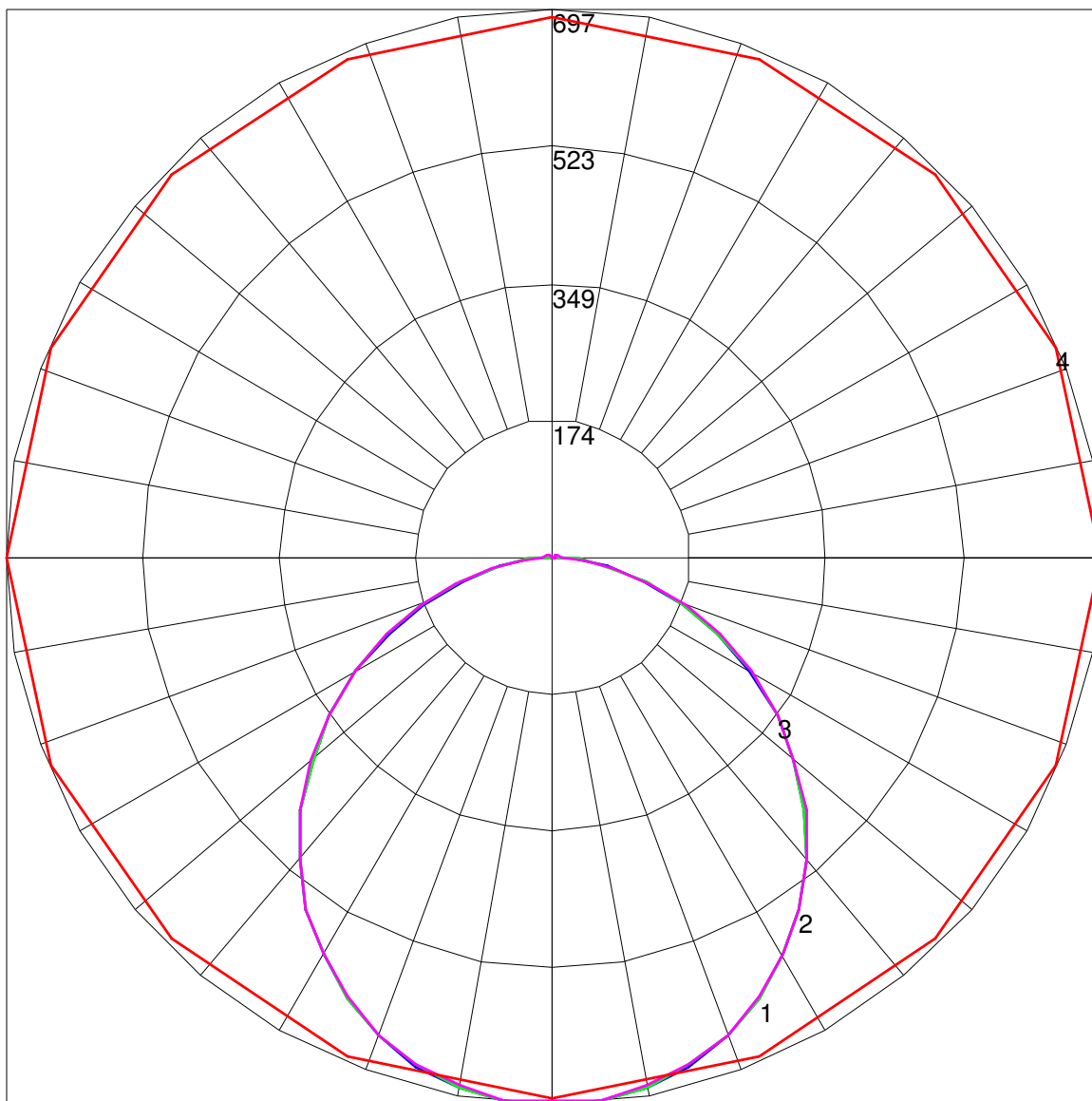
Reflectances

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	16.5	18.1	16.9	18.5	18.9	18.2	19.8	18.6	20.2	20.6
	3H	18.0	19.4	18.4	19.8	20.3	20.5	22.0	21.0	22.4	22.8
	4H	18.4	19.8	18.9	20.2	20.7	21.6	23.0	22.1	23.4	23.9
	6H	18.7	20.0	19.2	20.4	20.9	22.8	24.1	23.3	24.5	25.0
	8H	18.8	20.0	19.3	20.5	21.0	23.4	24.6	23.9	25.1	25.6
	12H	18.8	20.0	19.3	20.4	21.0	24.1	25.3	24.6	25.7	26.2
4H	2H	17.3	18.7	17.7	19.1	19.5	18.6	20.0	19.1	20.4	20.9
	3H	19.0	20.1	19.4	20.6	21.1	21.2	22.3	21.6	22.8	23.3
	4H	19.5	20.6	20.0	21.1	21.6	22.4	23.5	22.9	24.0	24.5
	6H	19.9	20.9	20.5	21.4	21.9	23.8	24.7	24.3	25.2	25.8
	8H	20.0	20.9	20.6	21.4	22.0	24.5	25.4	25.0	25.9	26.4
	12H	20.1	20.9	20.6	21.4	22.0	25.3	26.1	25.8	26.6	27.2
8H	4H	20.1	21.0	20.6	21.5	22.0	22.6	23.5	23.1	24.0	24.6
	6H	20.6	21.4	21.2	21.9	22.5	24.1	24.9	24.6	25.4	26.0
	8H	20.8	21.5	21.3	22.0	22.6	24.9	25.6	25.5	26.2	26.8
	12H	20.9	21.5	21.5	22.1	22.7	25.9	26.5	26.5	27.0	27.7
12H	4H	20.2	21.0	20.8	21.6	22.1	22.6	23.4	23.2	24.0	24.5
	6H	20.9	21.5	21.4	22.1	22.7	24.1	24.8	24.7	25.4	26.0
	8H	21.1	21.7	21.7	22.2	22.9	25.0	25.6	25.6	26.2	26.8

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 697.474 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.)