



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L10-927-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-L10-927-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6427
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	70.8
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	19981	16063	15229
55	18905	14386	13737
65	16896	12382	12224
75	14274	10213	10880
85	8042	8501	9797

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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	2023.697	2023.697	2023.697	2023.697	2023.697
5	2030.322	2020.385	2007.137	2003.825	2007.137
10	2000.513	1990.576	1977.328	1977.328	1983.952
15	1957.455	1947.519	1934.271	1937.583	1937.583
20	1891.213	1881.277	1864.716	1877.965	1881.277
25	1808.410	1798.474	1795.162	1805.098	1811.723
30	1705.735	1705.735	1705.735	1718.984	1715.671
35	1596.436	1596.436	1596.436	1609.684	1619.620
40	1463.951	1467.263	1470.576	1493.760	1507.009
45	1321.531	1331.467	1341.403	1367.900	1377.837
50	1165.862	1175.798	1198.983	1238.728	1258.601
55	1016.817	1020.129	1063.186	1096.307	1126.116
60	844.587	861.148	920.766	983.696	1003.568
65	672.358	698.855	768.409	837.963	867.772
70	513.377	539.873	625.988	712.103	738.600
75	351.083	397.453	493.504	589.555	629.300
80	205.351	255.032	384.204	480.256	523.313
85	69.554	162.293	281.529	377.580	420.638
90	0.000	89.427	208.663	294.778	327.899
95	0.000	46.369	142.421	228.535	258.344
100	0.000	23.185	99.363	168.917	198.726
105	0.000	13.248	69.554	122.548	149.045
110	0.000	9.936	46.369	89.427	105.987
115	0.000	6.624	29.809	62.930	79.491
120	0.000	0.000	16.561	39.745	49.682
125	0.000	0.000	13.248	26.497	33.121
130	0.000	0.000	0.000	16.561	19.873
135	0.000	0.000	0.000	0.000	13.248
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	738.89	N.A.	11.50
0-30	1569.33	N.A.	24.40
0-40	2571.38	N.A.	40.00
0-60	4563.16	N.A.	71.00
0-80	5850.96	N.A.	91.00
0-90	6149.02	N.A.	95.70
10-90	5957.79	N.A.	92.70
20-40	1832.49	N.A.	28.50
20-50	2872.00	N.A.	44.70
40-70	2756.1	N.A.	42.90
60-80	1287.8	N.A.	20.00
70-80	523.48	N.A.	8.10
80-90	298.06	N.A.	4.60
90-110	229.03	N.A.	3.60
90-120	263.80	N.A.	4.10
90-130	276.24	N.A.	4.30
90-150	278.22	N.A.	4.30
90-180	278.22	N.A.	4.30
110-180	49.20	N.A.	0.80
0-180	6427.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	191.23
10-20	547.65
20-30	830.45
30-40	1002.05
40-50	1039.5
50-60	952.27
60-70	764.32
70-80	523.48
80-90	298.06
90-100	152.89
100-110	76.14
110-120	34.77
120-130	12.44
130-140	1.98
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

X=2H	Y=2H	20.2	21.8	20.6	22.2	22.6	21.9	23.5	22.3	23.9	24.3
	3H	21.7	23.1	22.1	23.5	24.0	24.2	25.7	24.7	26.1	26.5
	4H	22.1	23.5	22.6	23.9	24.4	25.3	26.7	25.8	27.1	27.6
	6H	22.4	23.7	22.9	24.1	24.6	26.5	27.8	27.0	28.2	28.7
	8H	22.5	23.7	23.0	24.2	24.7	27.1	28.3	27.6	28.8	29.3
	12H	22.5	23.7	23.0	24.1	24.7	27.8	29.0	28.3	29.4	29.9

UGR Viewed Endwise

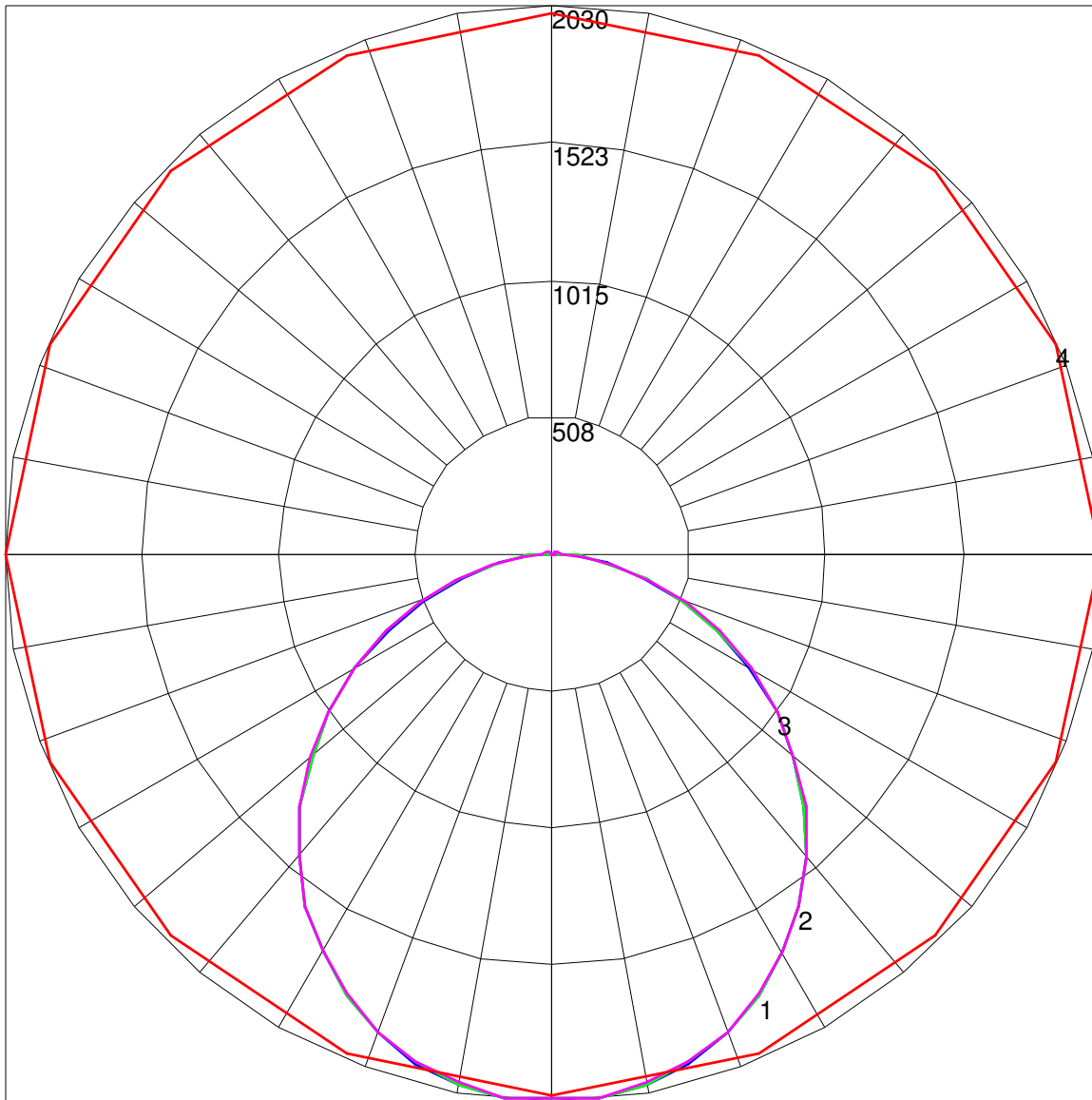
4H	2H	21.0	22.4	21.4	22.8	23.3	22.3	23.7	22.8	24.1	24.6
	3H	22.7	23.8	23.1	24.3	24.8	24.9	26.0	25.3	26.5	27.0
	4H	23.2	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.7	28.2
	6H	23.6	24.6	24.2	25.1	25.6	27.5	28.4	28.0	28.9	29.5
	8H	23.7	24.6	24.3	25.1	25.7	28.2	29.1	28.7	29.6	30.1
	12H	23.8	24.6	24.3	25.1	25.7	29.0	29.8	29.5	30.3	30.9

8H	4H	23.8	24.7	24.3	25.2	25.7	26.3	27.2	26.8	27.7	28.3
	6H	24.3	25.1	24.9	25.6	26.2	27.8	28.6	28.3	29.1	29.7
	8H	24.5	25.2	25.0	25.7	26.3	28.6	29.3	29.2	29.9	30.5
	12H	24.6	25.2	25.2	25.8	26.4	29.6	30.2	30.2	30.7	31.4

12H	4H	23.9	24.7	24.5	25.3	25.8	26.3	27.1	26.9	27.7	28.2
	6H	24.6	25.2	25.1	25.8	26.4	27.8	28.5	28.4	29.1	29.7
	8H	24.8	25.4	25.4	25.9	26.6	28.7	29.3	29.3	29.9	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 2030.322 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.)