



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L10-935-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-L10-935-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	20730	16665	15800
55	19614	14925	14252
65	17529	12847	12683
75	14810	10596	11288
85	8344	8819	10164

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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	2099.586	2099.586	2099.586	2099.586	2099.586
5	2106.459	2096.150	2082.404	2078.968	2082.404
10	2075.532	2065.223	2051.478	2051.478	2058.350
15	2030.860	2020.551	2006.806	2010.242	2010.242
20	1962.134	1951.825	1934.643	1948.388	1951.825
25	1876.226	1865.917	1862.481	1872.789	1879.662
30	1769.700	1769.700	1769.700	1783.445	1780.009
35	1656.302	1656.302	1656.302	1670.047	1680.356
40	1518.849	1522.286	1525.722	1549.776	1563.522
45	1371.088	1381.397	1391.706	1419.196	1429.505
50	1209.581	1219.890	1243.945	1285.180	1305.798
55	1054.947	1058.384	1103.056	1137.419	1168.346
60	876.259	893.441	955.294	1020.584	1041.202
65	697.571	725.062	797.224	869.387	900.313
70	532.628	560.119	649.463	738.807	766.297
75	364.249	412.357	512.010	611.663	652.899
80	213.051	264.596	398.612	498.265	542.937
85	72.163	168.379	292.086	391.739	436.411
90	0.000	92.780	216.488	305.832	340.195
95	0.000	48.108	147.761	237.105	268.032
100	0.000	24.054	103.089	175.252	206.179
105	0.000	13.745	72.163	127.144	154.634
110	0.000	10.309	48.108	92.780	109.962
115	0.000	6.873	30.927	65.290	82.471
120	0.000	0.000	17.182	41.236	51.545
125	0.000	0.000	13.745	27.490	34.363
130	0.000	0.000	0.000	17.182	20.618
135	0.000	0.000	0.000	0.000	13.745
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	766.60	N.A.	11.50
0-30	1628.18	N.A.	24.40
0-40	2667.81	N.A.	40.00
0-60	4734.28	N.A.	71.00
0-80	6070.37	N.A.	91.00
0-90	6379.61	N.A.	95.70
10-90	6181.2	N.A.	92.70
20-40	1901.21	N.A.	28.50
20-50	2979.7	N.A.	44.70
40-70	2859.45	N.A.	42.90
60-80	1336.1	N.A.	20.00
70-80	543.12	N.A.	8.10
80-90	309.23	N.A.	4.60
90-110	237.62	N.A.	3.60
90-120	273.69	N.A.	4.10
90-130	286.60	N.A.	4.30
90-150	288.66	N.A.	4.30
90-180	288.66	N.A.	4.30
110-180	51.04	N.A.	0.80
0-180	6668.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.40
10-20	568.19
20-30	861.59
30-40	1039.62
40-50	1078.48
50-60	987.98
60-70	792.98
70-80	543.12
80-90	309.23
90-100	158.62
100-110	79.00
110-120	36.08
120-130	12.91
130-140	2.05
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	20.3	21.9	20.7	22.3	22.7	22.0	23.6	22.4	24.0	24.4
	3H	21.8	23.2	22.2	23.6	24.1	24.3	25.8	24.8	26.2	26.6
	4H	22.2	23.6	22.7	24.0	24.5	25.4	26.8	25.9	27.2	27.7
	6H	22.5	23.8	23.0	24.2	24.7	26.6	27.9	27.1	28.3	28.8
	8H	22.6	23.8	23.1	24.3	24.8	27.2	28.4	27.7	28.9	29.4
	12H	22.6	23.8	23.1	24.2	24.8	27.9	29.1	28.4	29.5	30.0

UGR Viewed Endwise

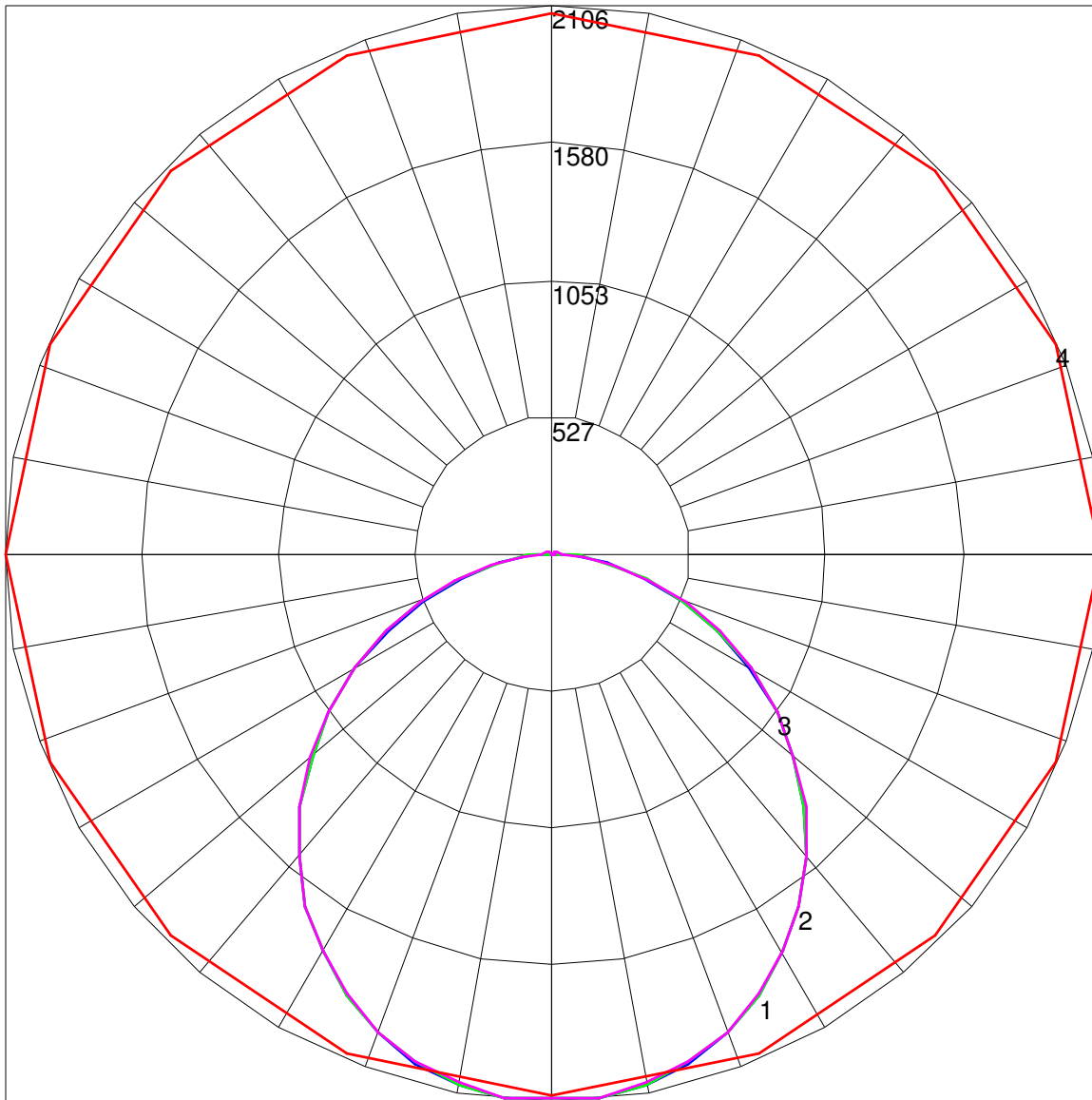
4H	2H	21.1	22.5	21.5	22.9	23.4	22.4	23.8	22.9	24.2	24.7
	3H	22.8	23.9	23.2	24.4	24.9	25.0	26.1	25.4	26.6	27.1
	4H	23.3	24.4	23.8	24.9	25.4	26.2	27.3	26.7	27.8	28.3
	6H	23.7	24.7	24.3	25.2	25.7	27.6	28.5	28.1	29.0	29.6
	8H	23.8	24.7	24.4	25.2	25.8	28.3	29.2	28.8	29.7	30.2
	12H	23.9	24.7	24.4	25.2	25.8	29.1	29.9	29.6	30.4	31.0

8H	4H	23.9	24.8	24.4	25.3	25.8	26.4	27.3	26.9	27.8	28.4
	6H	24.4	25.2	25.0	25.7	26.3	27.9	28.7	28.4	29.2	29.8
	8H	24.6	25.3	25.1	25.8	26.4	28.7	29.4	29.3	30.0	30.6
	12H	24.7	25.3	25.3	25.9	26.5	29.7	30.3	30.3	30.8	31.5

12H	4H	24.0	24.8	24.6	25.4	25.9	26.4	27.2	27.0	27.8	28.3
	6H	24.7	25.3	25.2	25.9	26.5	27.9	28.6	28.5	29.2	29.8
	8H	24.9	25.5	25.5	26.0	26.7	28.8	29.4	29.4	30.0	30.6

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 2106.459 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.)