



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L5-835-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-L5-835-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4043
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	12569	10104	9579
55	11892	9049	8641
65	10628	7789	7690
75	8979	6424	6844
85	5059	5347	6163

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : SL-8-L5-835-RD-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1272.995	1272.995	1272.995	1272.995	1272.995
5	1277.162	1270.912	1262.578	1260.495	1262.578
10	1258.411	1252.161	1243.827	1243.827	1247.994
15	1231.326	1225.076	1216.742	1218.825	1218.825
20	1189.657	1183.406	1172.989	1181.323	1183.406
25	1137.570	1131.320	1129.236	1135.487	1139.654
30	1072.983	1072.983	1072.983	1081.317	1079.233
35	1004.229	1004.229	1004.229	1012.563	1018.813
40	920.890	922.974	925.057	939.641	947.975
45	831.301	837.552	843.802	860.470	866.720
50	733.379	739.629	754.213	779.215	791.716
55	639.623	641.706	668.791	689.626	708.377
60	531.283	541.700	579.202	618.788	631.289
65	422.943	439.610	483.363	527.116	545.867
70	322.937	339.604	393.774	447.944	464.612
75	220.847	250.015	310.436	370.856	395.858
80	129.175	160.427	241.682	302.102	329.187
85	43.753	102.090	177.094	237.515	264.600
90	0.000	56.253	131.258	185.428	206.263
95	0.000	29.168	89.589	143.759	162.510
100	0.000	14.584	62.504	106.257	125.008
105	0.000	8.334	43.753	77.088	93.756
110	0.000	6.250	29.168	56.253	66.671
115	0.000	4.167	18.751	39.586	50.003
120	0.000	0.000	10.417	25.002	31.252
125	0.000	0.000	8.334	16.668	20.835
130	0.000	0.000	0.000	10.417	12.501
135	0.000	0.000	0.000	0.000	8.334
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-835-RD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	464.79	N.A.	11.50
0-30	987.18	N.A.	24.40
0-40	1617.51	N.A.	40.00
0-60	2870.43	N.A.	71.00
0-80	3680.51	N.A.	91.00
0-90	3868.00	N.A.	95.70
10-90	3747.71	N.A.	92.70
20-40	1152.72	N.A.	28.50
20-50	1806.61	N.A.	44.70
40-70	1733.71	N.A.	42.90
60-80	810.09	N.A.	20.00
70-80	329.30	N.A.	8.10
80-90	187.49	N.A.	4.60
90-110	144.07	N.A.	3.60
90-120	165.94	N.A.	4.10
90-130	173.77	N.A.	4.30
90-150	175.01	N.A.	4.30
90-180	175.01	N.A.	4.30
110-180	30.95	N.A.	0.80
0-180	4043.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.29
10-20	344.50
20-30	522.39
30-40	630.33
40-50	653.89
50-60	599.02
60-70	480.79
70-80	329.30
80-90	187.49
90-100	96.17
100-110	47.90
110-120	21.87
120-130	7.83
130-140	1.25
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-835-RD-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-835-RD-DIM-UNV_.IES

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	18.6	20.2	19.0	20.6	21.0	20.3	21.9	20.7	22.3	22.7
	3H	20.1	21.5	20.5	21.9	22.4	22.6	24.1	23.1	24.5	24.9
	4H	20.5	21.9	21.0	22.3	22.8	23.7	25.1	24.2	25.5	26.0
	6H	20.8	22.1	21.3	22.5	23.0	24.9	26.2	25.4	26.6	27.1
	8H	20.9	22.1	21.4	22.6	23.1	25.5	26.7	26.0	27.2	27.7
	12H	20.9	22.1	21.4	22.5	23.1	26.2	27.4	26.7	27.8	28.3

UGR Viewed Endwise

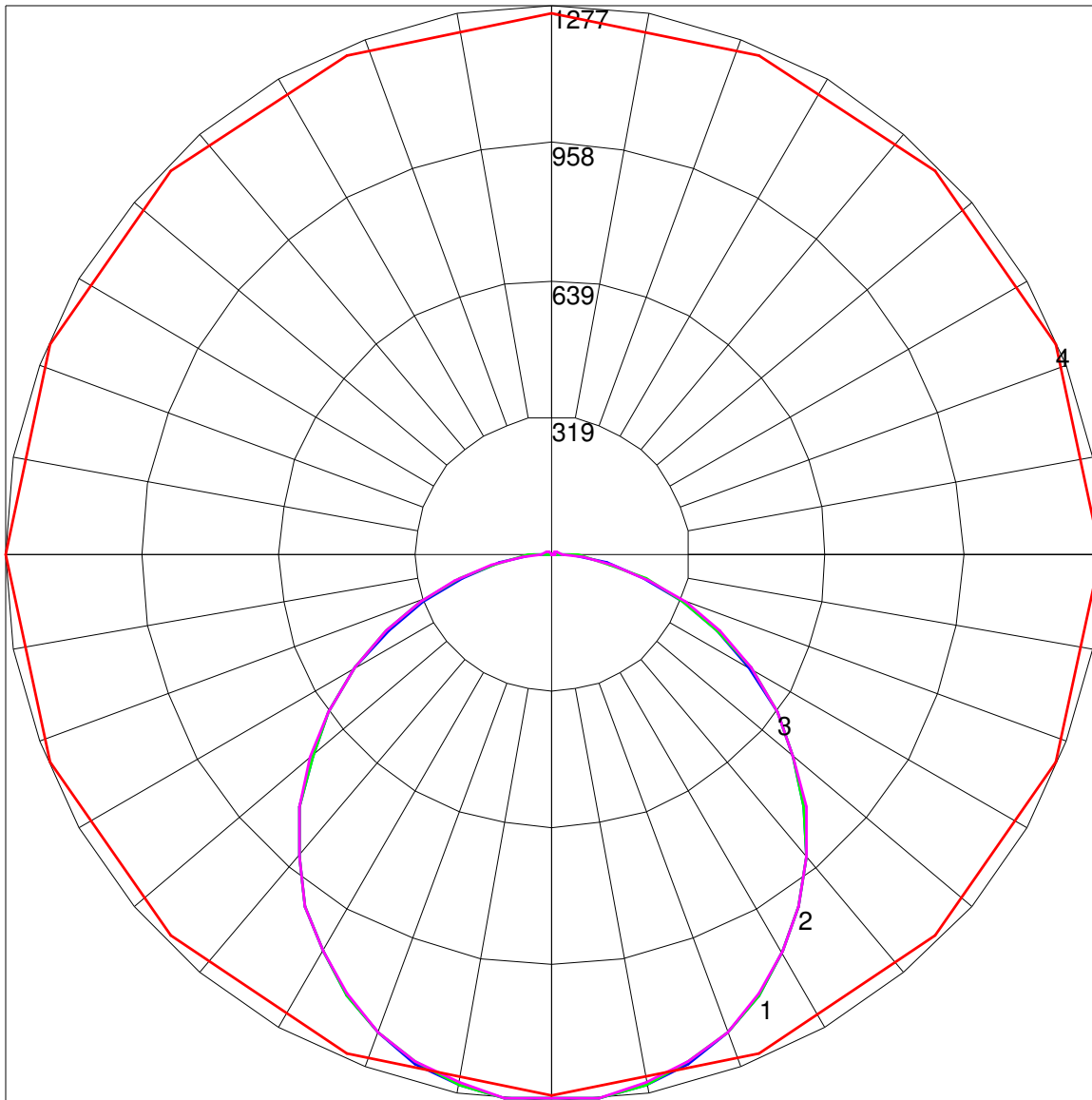
4H	2H	19.4	20.8	19.8	21.2	21.6	20.7	22.1	21.2	22.5	23.0
	3H	21.1	22.2	21.5	22.7	23.2	23.3	24.4	23.7	24.9	25.4
	4H	21.6	22.7	22.1	23.2	23.7	24.5	25.6	25.0	26.1	26.6
	6H	22.0	23.0	22.6	23.5	24.0	25.9	26.8	26.4	27.3	27.9
	8H	22.1	23.0	22.7	23.5	24.1	26.6	27.5	27.1	28.0	28.5
	12H	22.2	23.0	22.7	23.5	24.1	27.4	28.2	27.9	28.7	29.3

8H	4H	22.2	23.1	22.7	23.6	24.1	24.7	25.6	25.2	26.1	26.7
	6H	22.7	23.5	23.3	24.0	24.6	26.2	27.0	26.7	27.5	28.1
	8H	22.9	23.6	23.4	24.1	24.7	27.0	27.7	27.6	28.3	28.9
	12H	23.0	23.6	23.6	24.2	24.8	28.0	28.6	28.6	29.1	29.8

12H	4H	22.3	23.1	22.9	23.7	24.2	24.7	25.5	25.3	26.1	26.6
	6H	23.0	23.6	23.5	24.2	24.8	26.2	26.9	26.8	27.5	28.1
	8H	23.2	23.8	23.8	24.3	25.0	27.1	27.7	27.7	28.3	28.9

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1277.162 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.)