



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-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] 48 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE

[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-4-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	3383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	37.7
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)	4.00 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	20912	16855	16032
55	19738	15080	14461
65	17568	12962	12869
75	14712	10669	11454
85	7965	8846	10314

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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	1065.208	1065.208	1065.208	1065.208	1065.208
5	1068.695	1063.465	1056.491	1054.748	1056.491
10	1053.005	1047.774	1040.801	1040.801	1044.288
15	1030.341	1025.110	1018.137	1019.880	1019.880
20	995.473	990.243	981.526	988.499	990.243
25	951.888	946.658	944.915	950.145	953.632
30	897.843	897.843	897.843	904.817	903.073
35	840.312	840.312	840.312	847.285	852.515
40	770.576	772.320	774.063	786.267	793.240
45	695.611	700.841	706.071	720.018	725.248
50	613.672	618.902	631.105	652.026	662.486
55	535.219	536.963	559.627	577.060	592.751
60	444.563	453.280	484.661	517.785	528.246
65	353.907	367.854	404.465	441.076	456.767
70	270.225	284.172	329.500	374.828	388.775
75	184.799	209.206	259.764	310.323	331.243
80	108.090	134.241	202.233	252.791	275.455
85	36.611	85.426	148.188	198.746	221.410
90	0.000	47.071	109.833	155.161	172.595
95	0.000	24.407	74.966	120.294	135.984
100	0.000	12.204	52.302	88.913	104.603
105	0.000	6.974	36.611	64.505	78.452
110	0.000	5.230	24.407	47.071	55.788
115	0.000	3.487	15.690	33.124	41.841
120	0.000	0.000	8.717	20.921	26.151
125	0.000	0.000	6.974	13.947	17.434
130	0.000	0.000	0.000	8.717	10.460
135	0.000	0.000	0.000	0.000	6.974
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	388.93	N.A.	11.50
0-30	826.05	N.A.	24.40
0-40	1353.49	N.A.	40.00
0-60	2401.9	N.A.	71.00
0-80	3079.76	N.A.	91.00
0-90	3236.64	N.A.	95.70
10-90	3135.98	N.A.	92.70
20-40	964.56	N.A.	28.50
20-50	1511.73	N.A.	44.70
40-70	1450.72	N.A.	42.90
60-80	677.86	N.A.	20.00
70-80	275.55	N.A.	8.10
80-90	156.89	N.A.	4.60
90-110	120.55	N.A.	3.60
90-120	138.86	N.A.	4.10
90-130	145.41	N.A.	4.30
90-150	146.45	N.A.	4.30
90-180	146.45	N.A.	4.30
110-180	25.89	N.A.	0.80
0-180	3383.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.66
10-20	288.27
20-30	437.12
30-40	527.45
40-50	547.16
50-60	501.25
60-70	402.31
70-80	275.55
80-90	156.89
90-100	80.48
100-110	40.08
110-120	18.30
120-130	6.55
130-140	1.04
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	25.7	24.7	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	24.3	24.7	26.6	27.8	27.0	28.3	28.8
	8H	22.6	23.8	23.1	24.3	24.8	27.1	28.4	27.6	28.8	29.3
	12H	22.6	23.8	23.1	24.2	24.8	27.8	29.0	28.3	29.4	30.0

UGR Viewed Endwise

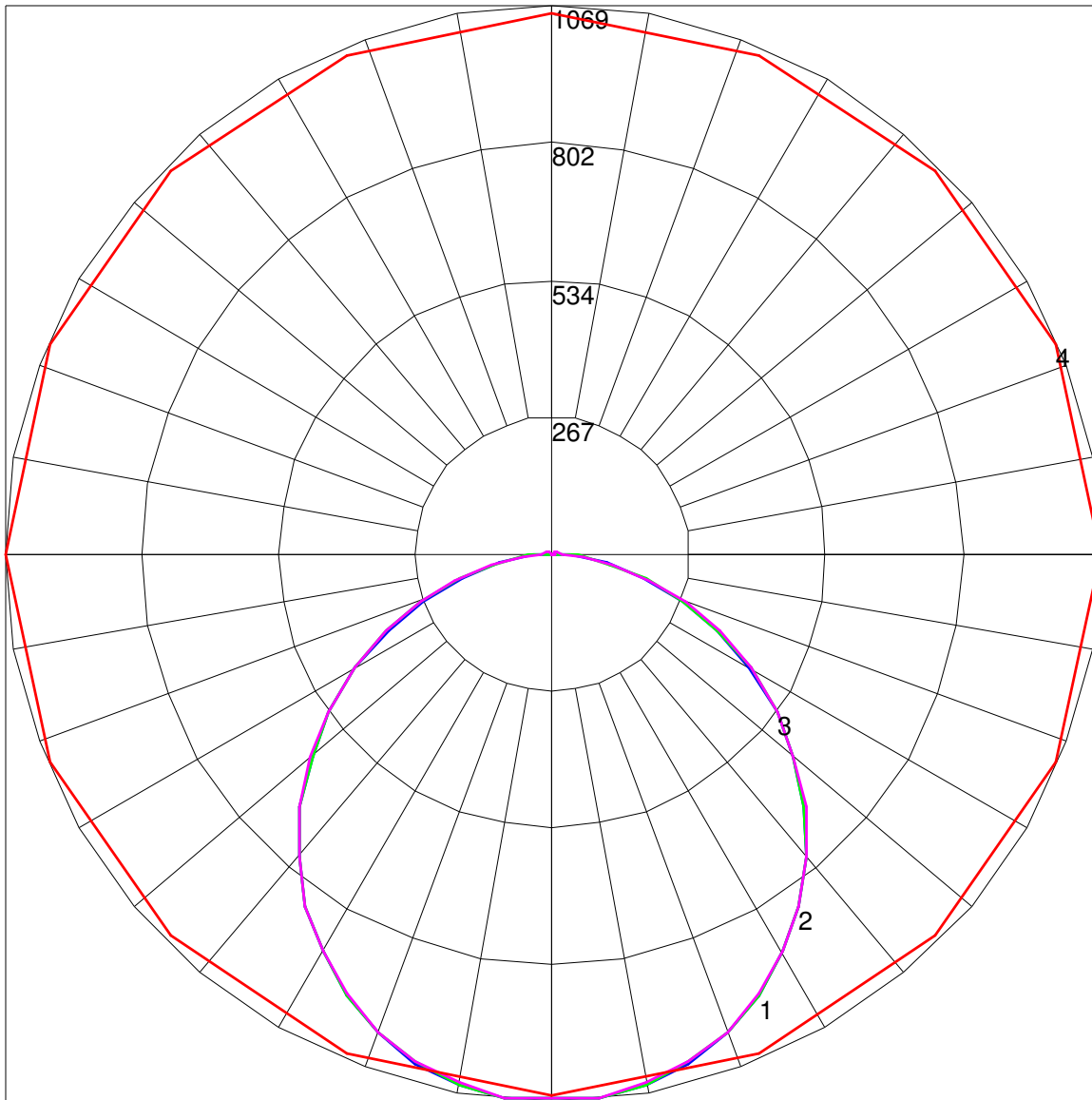
4H	2H	21.1	22.5	21.5	22.9	23.3	22.4	23.8	22.9	24.2	24.7
	3H	22.8	23.9	23.2	24.4	24.9	24.9	26.1	25.4	26.6	27.1
	4H	23.3	24.4	23.8	24.9	25.4	26.2	27.3	26.7	27.7	28.3
	6H	23.7	24.7	24.3	25.2	25.7	27.5	28.5	28.1	29.0	29.5
	8H	23.8	24.7	24.4	25.2	25.8	28.2	29.1	28.7	29.6	30.2
	12H	23.9	24.7	24.4	25.2	25.8	29.0	29.8	29.5	30.3	30.9

8H	4H	23.9	24.8	24.4	25.3	25.8	26.4	27.3	26.9	27.8	28.3
	6H	24.4	25.2	25.0	25.7	26.3	27.9	28.6	28.4	29.2	29.7
	8H	24.6	25.3	25.1	25.8	26.4	28.7	29.4	29.2	29.9	30.5
	12H	24.7	25.3	25.3	25.8	26.5	29.6	30.2	30.2	30.8	31.4

12H	4H	24.0	24.8	24.6	25.4	25.9	26.4	27.2	26.9	27.7	28.3
	6H	24.6	25.3	25.2	25.9	26.5	27.9	28.6	28.5	29.1	29.7
	8H	24.9	25.5	25.4	26.0	26.7	28.8	29.4	29.3	29.9	30.6

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1068.695 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.)