



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-930-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] 24 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-2-L10-930-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	17.8
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)	2.00 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	19837	16069	15384
55	18633	14348	13877
65	16454	12301	12349
75	13548	10083	10991
85	6834	8298	9897

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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	511.087	511.087	511.087	511.087	511.087
5	512.760	510.250	506.904	506.068	506.904
10	505.232	502.722	499.376	499.376	501.049
15	494.357	491.848	488.502	489.338	489.338
20	477.628	475.118	470.936	474.282	475.118
25	456.716	454.206	453.370	455.879	457.552
30	430.785	430.785	430.785	434.131	433.295
35	403.181	403.181	403.181	406.527	409.037
40	369.722	370.559	371.395	377.251	380.597
45	333.754	336.263	338.773	345.465	347.974
50	294.440	296.949	302.804	312.842	317.861
55	256.798	257.635	268.509	276.874	284.402
60	213.301	217.484	232.540	248.433	253.452
65	169.805	176.496	194.062	211.628	219.157
70	129.654	136.346	158.094	179.842	186.534
75	88.666	100.377	124.635	148.893	158.930
80	51.862	64.409	97.031	121.289	132.163
85	17.566	40.987	71.100	95.358	106.232
90	0.000	22.585	52.698	74.446	82.811
95	0.000	11.711	35.968	57.717	65.245
100	0.000	5.855	25.094	42.660	50.189
105	0.000	3.346	17.566	30.950	37.641
110	0.000	2.509	11.711	22.585	26.767
115	0.000	1.673	7.528	15.893	20.075
120	0.000	0.000	4.182	10.038	12.547
125	0.000	0.000	3.346	6.692	8.365
130	0.000	0.000	0.000	4.182	5.019
135	0.000	0.000	0.000	0.000	3.346
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	186.61	N.A.	11.50
0-30	396.34	N.A.	24.40
0-40	649.40	N.A.	40.00
0-60	1152.43	N.A.	71.00
0-80	1477.67	N.A.	91.00
0-90	1552.94	N.A.	95.70
10-90	1504.64	N.A.	92.70
20-40	462.80	N.A.	28.50
20-50	725.33	N.A.	44.70
40-70	696.05	N.A.	42.90
60-80	325.24	N.A.	20.00
70-80	132.21	N.A.	8.10
80-90	75.27	N.A.	4.60
90-110	57.84	N.A.	3.60
90-120	66.62	N.A.	4.10
90-130	69.77	N.A.	4.30
90-150	70.27	N.A.	4.30
90-180	70.27	N.A.	4.30
110-180	12.42	N.A.	0.80
0-180	1623.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.30
10-20	138.31
20-30	209.73
30-40	253.07
40-50	262.53
50-60	240.50
60-70	193.03
70-80	132.21
80-90	75.27
90-100	38.61
100-110	19.23
110-120	8.78
120-130	3.14
130-140	0.50
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	23.4	22.3	23.8	24.3
	3H	21.7	23.1	22.1	23.5	24.0	24.1	25.6	24.6	26.0	26.5
	4H	22.1	23.5	22.6	23.9	24.4	25.2	26.6	25.7	27.0	27.5
	6H	22.4	23.7	22.9	24.1	24.6	26.4	27.6	26.8	28.1	28.6
	8H	22.5	23.7	23.0	24.2	24.7	27.0	28.2	27.4	28.6	29.1
	12H	22.5	23.7	23.0	24.1	24.7	27.6	28.7	28.1	29.2	29.7

UGR Viewed Endwise

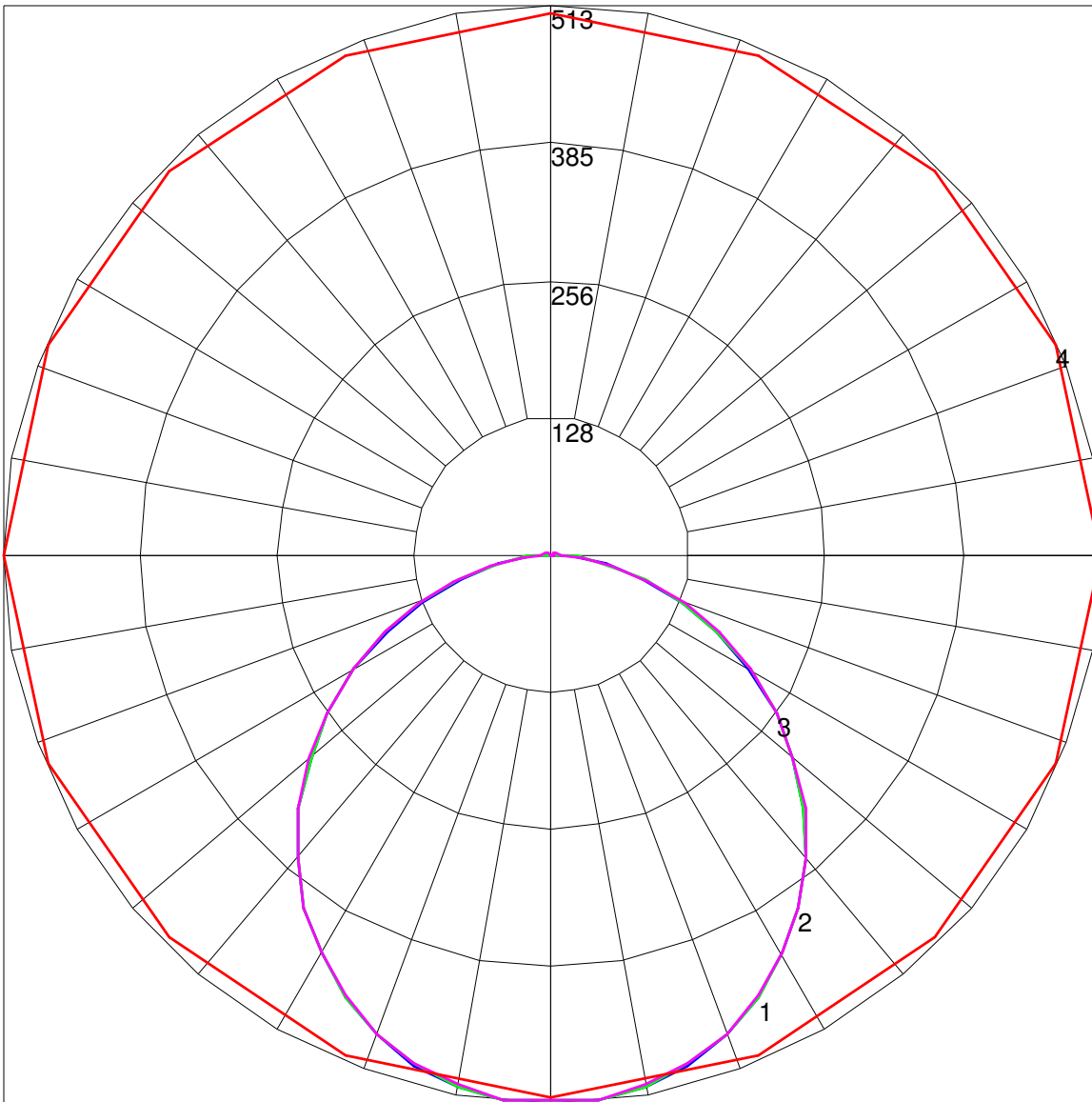
4H	2H	21.0	22.3	21.4	22.8	23.2	22.3	23.6	22.7	24.1	24.5
	3H	22.7	23.8	23.1	24.3	24.8	24.8	25.9	25.3	26.4	26.9
	4H	23.2	24.3	23.7	24.8	25.3	26.0	27.1	26.5	27.6	28.1
	6H	23.6	24.6	24.1	25.1	25.6	27.3	28.3	27.9	28.8	29.3
	8H	23.7	24.6	24.2	25.1	25.7	28.0	28.9	28.5	29.4	30.0
	12H	23.8	24.6	24.3	25.1	25.7	28.8	29.6	29.3	30.1	30.7

8H	4H	23.8	24.7	24.3	25.2	25.7	26.2	27.1	26.7	27.6	28.2
	6H	24.3	25.0	24.8	25.6	26.2	27.7	28.4	28.2	29.0	29.5
	8H	24.5	25.1	25.0	25.7	26.3	28.5	29.2	29.0	29.7	30.3
	12H	24.6	25.2	25.1	25.7	26.4	29.4	30.0	29.9	30.5	31.2

12H	4H	23.9	24.7	24.5	25.3	25.8	26.2	27.0	26.8	27.6	28.1
	6H	24.5	25.2	25.1	25.7	26.4	27.7	28.4	28.3	28.9	29.6
	8H	24.8	25.4	25.3	25.9	26.6	28.6	29.2	29.1	29.7	30.4

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 512.76 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.)