



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L10-940-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-L10-940-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	20805	16853	16134
55	19542	15048	14554
65	17257	12901	12951
75	14209	10575	11527
85	7167	8703	10380

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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	536.018	536.018	536.018	536.018	536.018
5	537.773	535.141	531.632	530.754	531.632
10	529.877	527.245	523.736	523.736	525.491
15	518.472	515.841	512.331	513.209	513.209
20	500.927	498.295	493.909	497.418	498.295
25	478.995	476.363	475.486	478.118	479.872
30	451.799	451.799	451.799	455.308	454.431
35	422.849	422.849	422.849	426.358	428.990
40	387.758	388.635	389.512	395.653	399.162
45	350.035	352.666	355.298	362.317	364.948
50	308.802	311.434	317.575	328.103	333.366
55	269.325	270.202	281.607	290.380	298.275
60	223.706	228.093	243.884	260.552	265.816
65	178.088	185.106	203.529	221.952	229.847
70	135.978	142.997	165.806	188.615	195.633
75	92.992	105.274	130.715	156.156	166.683
80	54.391	67.551	101.764	127.206	138.610
85	18.423	42.987	74.569	100.010	111.415
90	0.000	23.687	55.269	78.078	86.851
95	0.000	12.282	37.723	60.532	68.428
100	0.000	6.141	26.318	44.741	52.637
105	0.000	3.509	18.423	32.459	39.478
110	0.000	2.632	12.282	23.687	28.073
115	0.000	1.755	7.896	16.668	21.055
120	0.000	0.000	4.386	10.527	13.159
125	0.000	0.000	3.509	7.018	8.773
130	0.000	0.000	0.000	4.386	5.264
135	0.000	0.000	0.000	0.000	3.509
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	195.71	N.A.	11.50
0-30	415.67	N.A.	24.40
0-40	681.08	N.A.	40.00
0-60	1208.65	N.A.	71.00
0-80	1549.75	N.A.	91.00
0-90	1628.69	N.A.	95.70
10-90	1578.04	N.A.	92.70
20-40	485.37	N.A.	28.50
20-50	760.71	N.A.	44.70
40-70	730.01	N.A.	42.90
60-80	341.10	N.A.	20.00
70-80	138.66	N.A.	8.10
80-90	78.95	N.A.	4.60
90-110	60.66	N.A.	3.60
90-120	69.87	N.A.	4.10
90-130	73.17	N.A.	4.30
90-150	73.69	N.A.	4.30
90-180	73.69	N.A.	4.30
110-180	13.03	N.A.	0.80
0-180	1702.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.65
10-20	145.06
20-30	219.96
30-40	265.41
40-50	275.33
50-60	252.23
60-70	202.45
70-80	138.66
80-90	78.95
90-100	40.50
100-110	20.17
110-120	9.21
120-130	3.30
130-140	0.52
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	56	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	23.5	22.4	23.9	24.4
	3H	21.8	23.2	22.2	23.6	24.1	24.2	25.7	24.7	26.1	26.6
	4H	22.2	23.6	22.7	24.0	24.5	25.3	26.7	25.8	27.1	27.6
	6H	22.5	23.8	23.0	24.2	24.7	26.5	27.7	26.9	28.2	28.7
	8H	22.6	23.8	23.1	24.3	24.8	27.1	28.3	27.5	28.7	29.2
	12H	22.6	23.8	23.1	24.2	24.8	27.7	28.8	28.2	29.3	29.8

UGR Viewed Endwise

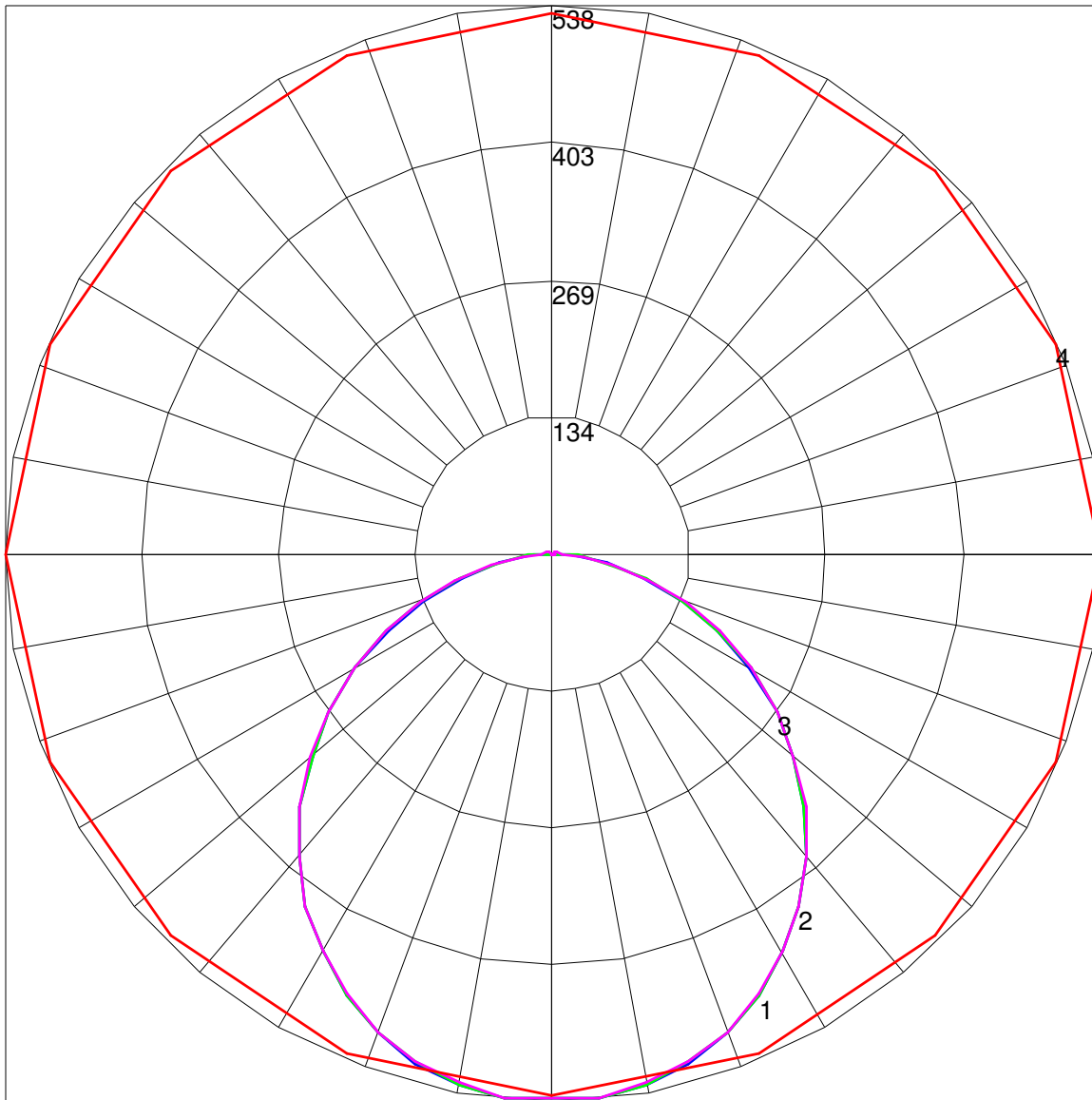
4H	2H	21.1	22.4	21.5	22.9	23.3	22.4	23.7	22.8	24.2	24.6
	3H	22.8	23.9	23.2	24.4	24.9	24.9	26.0	25.4	26.5	27.0
	4H	23.3	24.4	23.8	24.9	25.4	26.1	27.2	26.6	27.7	28.2
	6H	23.7	24.7	24.2	25.2	25.7	27.4	28.4	28.0	28.9	29.4
	8H	23.8	24.7	24.3	25.2	25.8	28.1	29.0	28.6	29.5	30.1
	12H	23.9	24.7	24.4	25.2	25.8	28.9	29.7	29.4	30.2	30.8

8H	4H	23.9	24.8	24.4	25.3	25.8	26.3	27.2	26.8	27.7	28.3
	6H	24.4	25.1	24.9	25.7	26.3	27.8	28.5	28.3	29.1	29.6
	8H	24.6	25.2	25.1	25.8	26.4	28.6	29.3	29.1	29.8	30.4
	12H	24.7	25.3	25.2	25.8	26.5	29.5	30.1	30.0	30.6	31.3

12H	4H	24.0	24.8	24.6	25.4	25.9	26.3	27.1	26.9	27.7	28.2
	6H	24.6	25.3	25.2	25.8	26.5	27.8	28.5	28.4	29.0	29.7
	8H	24.9	25.5	25.4	26.0	26.7	28.7	29.3	29.2	29.8	30.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 537.773 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.)