



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-830-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-L10-830-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	23950	19401	18573
55	22496	17323	16754
65	19865	14851	14909
75	16357	12174	13270
85	8251	10018	11949

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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	617.044	617.044	617.044	617.044	617.044
5	619.064	616.034	611.995	610.985	611.995
10	609.975	606.945	602.906	602.906	604.925
15	596.846	593.816	589.777	590.787	590.787
20	576.648	573.619	568.569	572.609	573.619
25	551.401	548.371	547.361	550.391	552.411
30	520.094	520.094	520.094	524.134	523.124
35	486.768	486.768	486.768	490.808	493.837
40	446.372	447.382	448.392	455.461	459.501
45	402.947	405.977	409.006	417.085	420.115
50	355.482	358.512	365.581	377.700	383.759
55	310.037	311.047	324.175	334.274	343.363
60	257.522	262.572	280.750	299.938	305.997
65	205.008	213.087	234.295	255.503	264.592
70	156.533	164.612	190.870	217.127	225.206
75	107.049	121.187	150.474	179.761	191.879
80	62.613	77.762	117.147	146.434	159.563
85	21.208	49.485	85.841	115.128	128.256
90	0.000	27.267	63.623	89.880	99.979
95	0.000	14.138	43.425	69.683	78.772
100	0.000	7.069	30.297	51.504	60.594
105	0.000	4.040	21.208	37.366	45.445
110	0.000	3.030	14.138	27.267	32.317
115	0.000	2.020	9.089	19.188	24.237
120	0.000	0.000	5.049	12.119	15.148
125	0.000	0.000	4.040	8.079	10.099
130	0.000	0.000	0.000	5.049	6.059
135	0.000	0.000	0.000	0.000	4.040
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	225.29	N.A.	11.50
0-30	478.50	N.A.	24.40
0-40	784.04	N.A.	40.00
0-60	1391.35	N.A.	71.00
0-80	1784.01	N.A.	91.00
0-90	1874.89	N.A.	95.70
10-90	1816.58	N.A.	92.70
20-40	558.74	N.A.	28.50
20-50	875.70	N.A.	44.70
40-70	840.36	N.A.	42.90
60-80	392.66	N.A.	20.00
70-80	159.62	N.A.	8.10
80-90	90.88	N.A.	4.60
90-110	69.83	N.A.	3.60
90-120	80.43	N.A.	4.10
90-130	84.23	N.A.	4.30
90-150	84.83	N.A.	4.30
90-180	84.83	N.A.	4.30
110-180	15.00	N.A.	0.80
0-180	1959.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.31
10-20	166.99
20-30	253.21
30-40	305.53
40-50	316.95
50-60	290.36
60-70	233.05
70-80	159.62
80-90	90.88
90-100	46.62
100-110	23.22
110-120	10.60
120-130	3.79
130-140	0.60
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	88	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	58	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	20.8	22.4	21.2	22.8	23.2	22.5	24.0	22.9	24.4	24.9
	3H	22.3	23.7	22.7	24.1	24.6	24.7	26.2	25.2	26.6	27.0
	4H	22.7	24.1	23.2	24.5	25.0	25.8	27.2	26.3	27.6	28.1
	6H	23.0	24.3	23.5	24.7	25.2	27.0	28.2	27.4	28.7	29.2
	8H	23.1	24.3	23.6	24.8	25.3	27.5	28.8	28.0	29.2	29.7
	12H	23.1	24.3	23.6	24.7	25.3	28.2	29.3	28.7	29.8	30.3

UGR Viewed Endwise

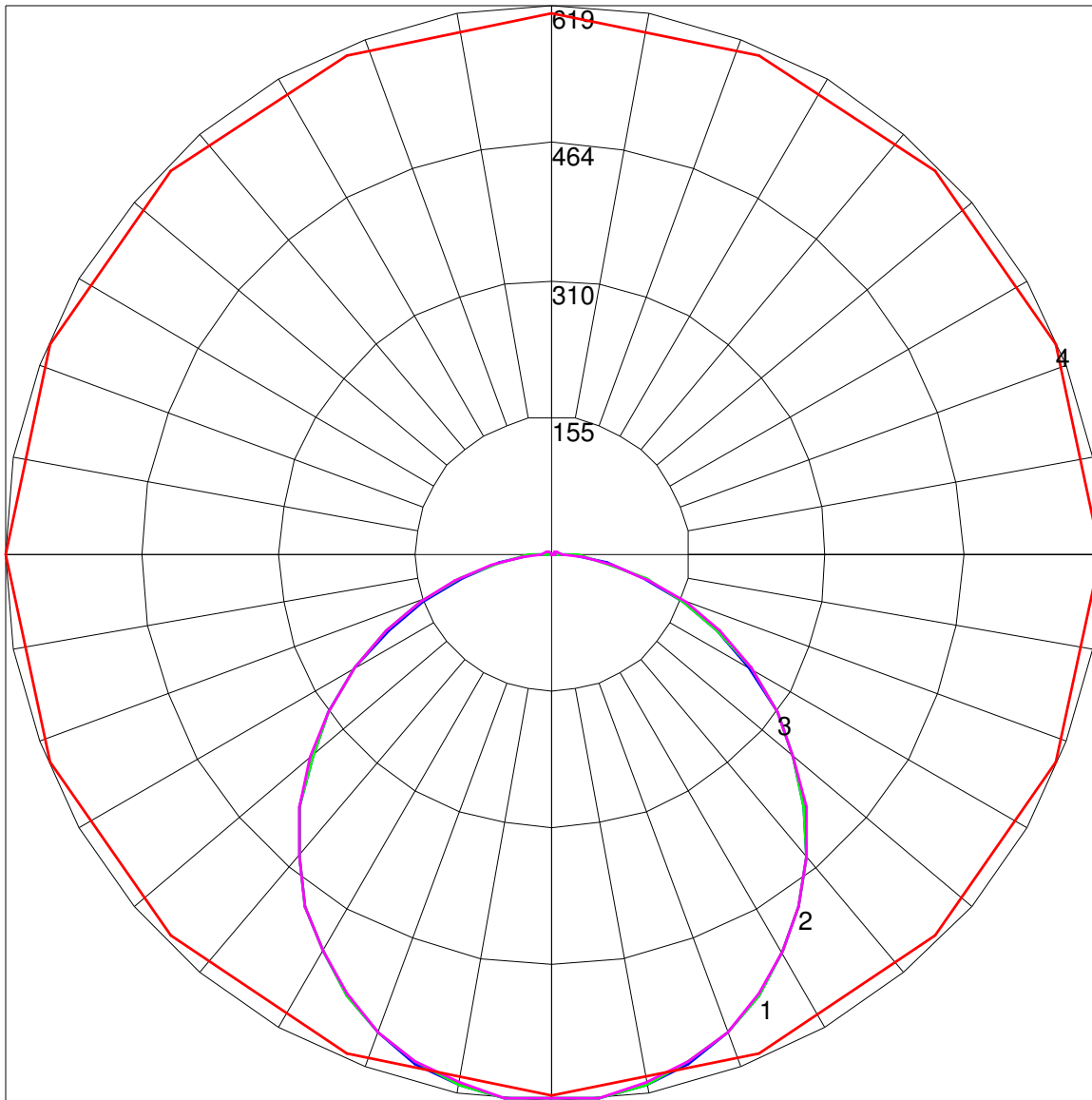
4H	2H	21.6	22.9	22.0	23.4	23.8	22.9	24.2	23.3	24.7	25.1
	3H	23.2	24.4	23.7	24.9	25.4	25.4	26.5	25.9	27.0	27.5
	4H	23.8	24.9	24.3	25.4	25.9	26.6	27.7	27.1	28.2	28.7
	6H	24.2	25.2	24.7	25.7	26.2	27.9	28.9	28.5	29.4	29.9
	8H	24.3	25.2	24.8	25.7	26.3	28.6	29.5	29.1	30.0	30.6
	12H	24.4	25.2	24.9	25.7	26.3	29.4	30.2	29.9	30.7	31.3

8H	4H	24.4	25.3	24.9	25.8	26.3	26.8	27.7	27.3	28.2	28.8
	6H	24.9	25.6	25.4	26.2	26.8	28.3	29.0	28.8	29.6	30.1
	8H	25.1	25.7	25.6	26.3	26.9	29.1	29.7	29.6	30.3	30.9
	12H	25.2	25.8	25.7	26.3	27.0	30.0	30.6	30.5	31.1	31.8

12H	4H	24.5	25.3	25.1	25.9	26.4	26.8	27.6	27.4	28.2	28.7
	6H	25.1	25.8	25.7	26.3	27.0	28.3	29.0	28.9	29.5	30.1
	8H	25.4	26.0	25.9	26.5	27.2	29.2	29.8	29.7	30.3	31.0

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 619.064 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.)