



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L10-835-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] 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-L10-835-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	24192	19597	18761
55	22723	17498	16923
65	20066	15001	15060
75	16522	12297	13404
85	8334	10120	12069

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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	623.277	623.277	623.277	623.277	623.277
5	625.317	622.257	618.176	617.156	618.176
10	616.136	613.076	608.995	608.995	611.036
15	602.875	599.815	595.734	596.754	596.754
20	582.473	579.413	574.312	578.393	579.413
25	556.971	553.910	552.890	555.951	557.991
30	525.348	525.348	525.348	529.428	528.408
35	491.685	491.685	491.685	495.765	498.825
40	450.881	451.901	452.921	460.062	464.142
45	407.017	410.077	413.138	421.298	424.359
50	359.073	362.133	369.274	381.515	387.635
55	313.169	314.189	327.450	337.651	346.832
60	260.124	265.224	283.586	302.968	309.088
65	207.079	215.240	236.662	258.084	267.264
70	158.114	166.275	192.798	219.320	227.481
75	108.130	122.411	151.994	181.577	193.818
80	63.246	78.547	118.331	147.913	161.175
85	21.422	49.985	86.708	116.291	129.552
90	0.000	27.543	64.266	90.788	100.989
95	0.000	14.281	43.864	70.386	79.567
100	0.000	7.141	30.603	52.025	61.206
105	0.000	4.080	21.422	37.743	45.904
110	0.000	3.060	14.281	27.543	32.643
115	0.000	2.040	9.181	19.382	24.482
120	0.000	0.000	5.100	12.241	15.301
125	0.000	0.000	4.080	8.161	10.201
130	0.000	0.000	0.000	5.100	6.121
135	0.000	0.000	0.000	0.000	4.080
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	227.57	N.A.	11.50
0-30	483.34	N.A.	24.40
0-40	791.96	N.A.	40.00
0-60	1405.4	N.A.	71.00
0-80	1802.03	N.A.	91.00
0-90	1893.83	N.A.	95.70
10-90	1834.93	N.A.	92.70
20-40	564.39	N.A.	28.50
20-50	884.54	N.A.	44.70
40-70	848.85	N.A.	42.90
60-80	396.63	N.A.	20.00
70-80	161.23	N.A.	8.10
80-90	91.80	N.A.	4.60
90-110	70.54	N.A.	3.60
90-120	81.25	N.A.	4.10
90-130	85.08	N.A.	4.30
90-150	85.69	N.A.	4.30
90-180	85.69	N.A.	4.30
110-180	15.15	N.A.	0.80
0-180	1979.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.90
10-20	168.67
20-30	255.77
30-40	308.62
40-50	320.16
50-60	293.29
60-70	235.40
70-80	161.23
80-90	91.80
90-100	47.09
100-110	23.45
110-120	10.71
120-130	3.83
130-140	0.61
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	67	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	29	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

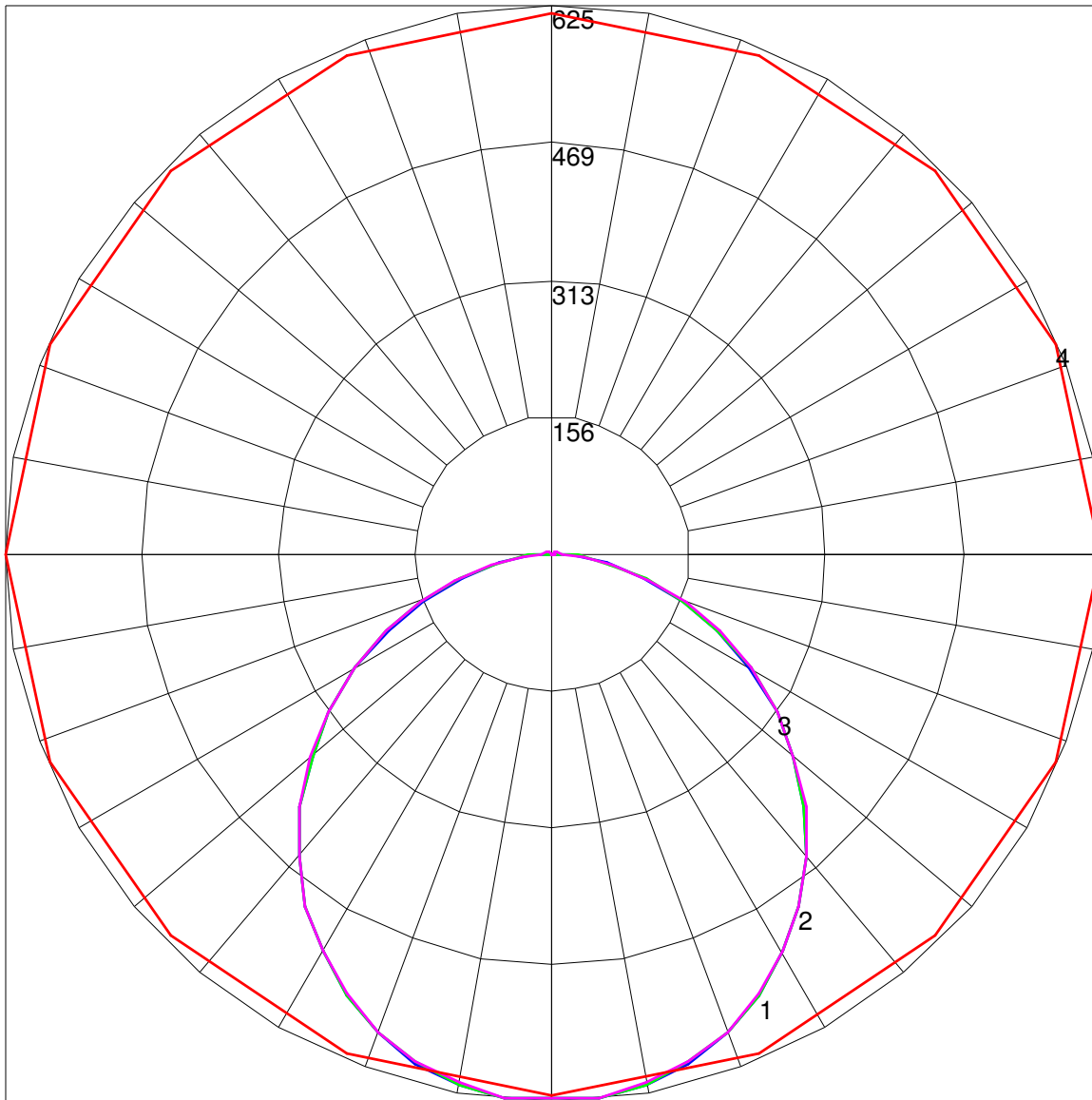
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	20.9	22.5	21.3	22.9	23.3	22.6	24.1	23.0	24.5	24.9
	3H	22.4	23.8	22.8	24.2	24.7	24.8	26.3	25.3	26.7	27.1
	4H	22.8	24.2	23.3	24.6	25.1	25.9	27.3	26.4	27.7	28.2
	6H	23.1	24.4	23.6	24.8	25.3	27.1	28.3	27.5	28.8	29.3
	8H	23.2	24.4	23.7	24.9	25.4	27.6	28.9	28.1	29.3	29.8
	12H	23.2	24.4	23.7	24.8	25.4	28.3	29.4	28.8	29.9	30.4
4H	2H	21.7	23.0	22.1	23.5	23.9	23.0	24.3	23.4	24.8	25.2
	3H	23.3	24.5	23.8	25.0	25.5	25.5	26.6	26.0	27.1	27.6
	4H	23.9	25.0	24.4	25.5	26.0	26.7	27.8	27.2	28.3	28.8
	6H	24.3	25.3	24.8	25.8	26.3	28.0	29.0	28.6	29.5	30.0
	8H	24.4	25.3	24.9	25.8	26.4	28.7	29.6	29.2	30.1	30.7
	12H	24.5	25.3	25.0	25.8	26.4	29.5	30.2	30.0	30.8	31.4
8H	4H	24.5	25.4	25.0	25.9	26.4	26.9	27.8	27.4	28.3	28.9
	6H	25.0	25.7	25.5	26.3	26.9	28.4	29.1	28.9	29.7	30.2
	8H	25.2	25.8	25.7	26.4	27.0	29.2	29.8	29.7	30.4	31.0
	12H	25.3	25.9	25.8	26.4	27.1	30.1	30.7	30.6	31.2	31.9
12H	4H	24.6	25.4	25.2	26.0	26.5	26.9	27.7	27.5	28.3	28.8
	6H	25.2	25.9	25.8	26.4	27.1	28.4	29.1	29.0	29.6	30.2
	8H	25.5	26.1	26.0	26.6	27.3	29.3	29.9	29.8	30.4	31.1

Maximum UGR = 31.9

POLAR GRAPH



Maximum Candela = 625.317 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.)