



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-2-L3-840-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-L3-840-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	5.5
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	7840	6351	6080
55	7364	5671	5485
65	6503	4862	4881
75	5354	3985	4344
85	2701	3280	3912

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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	201.995	201.995	201.995	201.995	201.995
5	202.656	201.665	200.342	200.012	200.342
10	199.681	198.689	197.367	197.367	198.028
15	195.383	194.391	193.069	193.400	193.400
20	188.771	187.779	186.126	187.449	187.779
25	180.506	179.515	179.184	180.176	180.837
30	170.258	170.258	170.258	171.580	171.250
35	159.348	159.348	159.348	160.670	161.662
40	146.124	146.455	146.785	149.100	150.422
45	131.908	132.900	133.892	136.537	137.529
50	116.370	117.362	119.676	123.644	125.627
55	101.493	101.824	106.122	109.428	112.403
60	84.302	85.955	91.906	98.187	100.171
65	67.111	69.756	76.699	83.641	86.617
70	51.243	53.887	62.483	71.078	73.723
75	35.043	39.672	49.259	58.846	62.814
80	20.497	25.456	38.349	47.937	52.234
85	6.943	16.199	28.101	37.688	41.986
90	0.000	8.926	20.828	29.423	32.729
95	0.000	4.628	14.216	22.811	25.787
100	0.000	2.314	9.918	16.860	19.836
105	0.000	1.322	6.943	12.232	14.877
110	0.000	0.992	4.628	8.926	10.579
115	0.000	0.661	2.975	6.281	7.934
120	0.000	0.000	1.653	3.967	4.959
125	0.000	0.000	1.322	2.645	3.306
130	0.000	0.000	0.000	1.653	1.984
135	0.000	0.000	0.000	0.000	1.322
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	73.75	N.A.	11.50
0-30	156.64	N.A.	24.40
0-40	256.66	N.A.	40.00
0-60	455.47	N.A.	71.00
0-80	584.01	N.A.	91.00
0-90	613.76	N.A.	95.70
10-90	594.68	N.A.	92.70
20-40	182.91	N.A.	28.50
20-50	286.67	N.A.	44.70
40-70	275.10	N.A.	42.90
60-80	128.54	N.A.	20.00
70-80	52.25	N.A.	8.10
80-90	29.75	N.A.	4.60
90-110	22.86	N.A.	3.60
90-120	26.33	N.A.	4.10
90-130	27.57	N.A.	4.30
90-150	27.77	N.A.	4.30
90-180	27.77	N.A.	4.30
110-180	4.91	N.A.	0.80
0-180	641.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.09
10-20	54.66
20-30	82.89
30-40	100.02
40-50	103.76
50-60	95.05
60-70	76.29
70-80	52.25
80-90	29.75
90-100	15.26
100-110	7.60
110-120	3.47
120-130	1.24
130-140	0.20
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	87	76	68	61	85	74	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	48	57	52	47	45
5	73	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	37	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	26	37	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	33	28	23	22

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**UGR TABLE - CORRECTED**

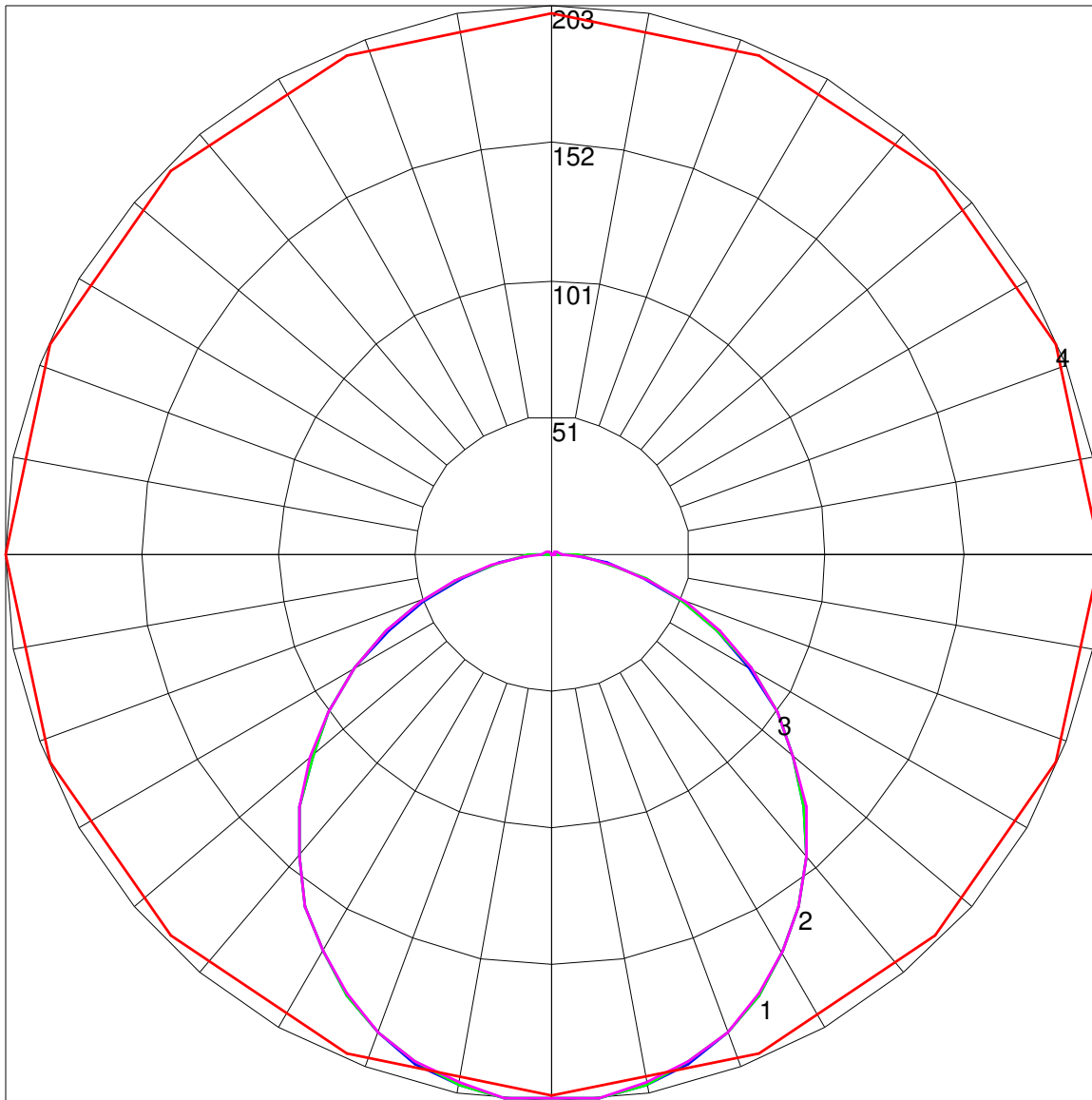
Reflectances

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	17.0	18.6	17.4	19.0	19.4	18.6	20.2	19.1	20.6	21.0
	3H	18.5	19.9	18.9	20.3	20.8	20.9	22.4	21.4	22.8	23.2
	4H	18.9	20.3	19.4	20.7	21.2	22.0	23.4	22.5	23.8	24.3
	6H	19.2	20.5	19.7	20.9	21.4	23.2	24.4	23.6	24.9	25.4
	8H	19.3	20.5	19.8	21.0	21.5	23.7	25.0	24.2	25.4	25.9
	12H	19.3	20.5	19.8	20.9	21.5	24.4	25.5	24.9	26.0	26.5
4H	2H	17.8	19.1	18.2	19.6	20.0	19.1	20.4	19.5	20.9	21.3
	3H	19.4	20.6	19.9	21.1	21.6	21.6	22.7	22.0	23.2	23.7
	4H	20.0	21.1	20.5	21.6	22.1	22.8	23.9	23.3	24.4	24.9
	6H	20.4	21.4	20.9	21.9	22.4	24.1	25.1	24.6	25.6	26.1
	8H	20.5	21.4	21.0	21.9	22.5	24.8	25.7	25.3	26.2	26.8
	12H	20.6	21.4	21.1	21.9	22.5	25.5	26.3	26.1	26.9	27.4
8H	4H	20.6	21.4	21.1	22.0	22.5	23.0	23.9	23.5	24.4	25.0
	6H	21.1	21.8	21.6	22.4	23.0	24.5	25.2	25.0	25.8	26.3
	8H	21.3	21.9	21.8	22.5	23.1	25.3	25.9	25.8	26.5	27.1
	12H	21.4	22.0	21.9	22.5	23.2	26.2	26.8	26.7	27.3	28.0
12H	4H	20.7	21.5	21.3	22.1	22.6	23.0	23.8	23.6	24.4	24.9
	6H	21.3	22.0	21.9	22.5	23.2	24.5	25.2	25.1	25.7	26.3
	8H	21.6	22.2	22.1	22.7	23.4	25.4	26.0	25.9	26.5	27.2

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 202.656 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.)