



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-2-L5-840-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-L5-840-RD-DIM-UNV  
[LAMPCAT] 22 INCH LED ARRAY

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	9.4
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	12723	10306	9867
55	11951	9203	8900
65	10553	7889	7920
75	8689	6467	7049
85	4383	5322	6348

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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	327.796	327.796	327.796	327.796	327.796
5	328.869	327.260	325.114	324.577	325.114
10	324.041	322.431	320.285	320.285	321.358
15	317.066	315.457	313.311	313.848	313.848
20	306.337	304.727	302.045	304.191	304.727
25	292.924	291.315	290.778	292.388	293.461
30	276.293	276.293	276.293	278.439	277.903
35	258.589	258.589	258.589	260.735	262.344
40	237.129	237.666	238.202	241.958	244.104
45	214.060	215.670	217.279	221.571	223.180
50	188.845	190.454	194.210	200.648	203.867
55	164.703	165.239	172.214	177.579	182.407
60	136.805	139.488	149.145	159.338	162.557
65	108.908	113.200	124.466	135.732	140.561
70	83.156	87.448	101.397	115.346	119.638
75	56.868	64.379	79.937	95.495	101.933
80	33.262	41.310	62.233	77.791	84.766
85	11.266	26.288	45.602	61.160	68.134
90	0.000	14.485	33.799	47.748	53.113
95	0.000	7.511	23.069	37.018	41.846
100	0.000	3.755	16.095	27.361	32.189
105	0.000	2.146	11.266	19.850	24.142
110	0.000	1.609	7.511	14.485	17.168
115	0.000	1.073	4.828	10.193	12.876
120	0.000	0.000	2.682	6.438	8.047
125	0.000	0.000	2.146	4.292	5.365
130	0.000	0.000	0.000	2.682	3.219
135	0.000	0.000	0.000	0.000	2.146
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	119.68	N.A.	11.50
0-30	254.20	N.A.	24.40
0-40	416.51	N.A.	40.00
0-60	739.14	N.A.	71.00
0-80	947.73	N.A.	91.00
0-90	996.01	N.A.	95.70
10-90	965.04	N.A.	92.70
20-40	296.83	N.A.	28.50
20-50	465.20	N.A.	44.70
40-70	446.43	N.A.	42.90
60-80	208.60	N.A.	20.00
70-80	84.79	N.A.	8.10
80-90	48.28	N.A.	4.60
90-110	37.10	N.A.	3.60
90-120	42.73	N.A.	4.10
90-130	44.75	N.A.	4.30
90-150	45.07	N.A.	4.30
90-180	45.07	N.A.	4.30
110-180	7.97	N.A.	0.80
0-180	1041.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	30.98
10-20	88.71
20-30	134.51
30-40	162.31
40-50	168.38
50-60	154.25
60-70	123.80
70-80	84.79
80-90	48.28
90-100	24.76
100-110	12.33
110-120	5.63
120-130	2.02
130-140	0.32
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**

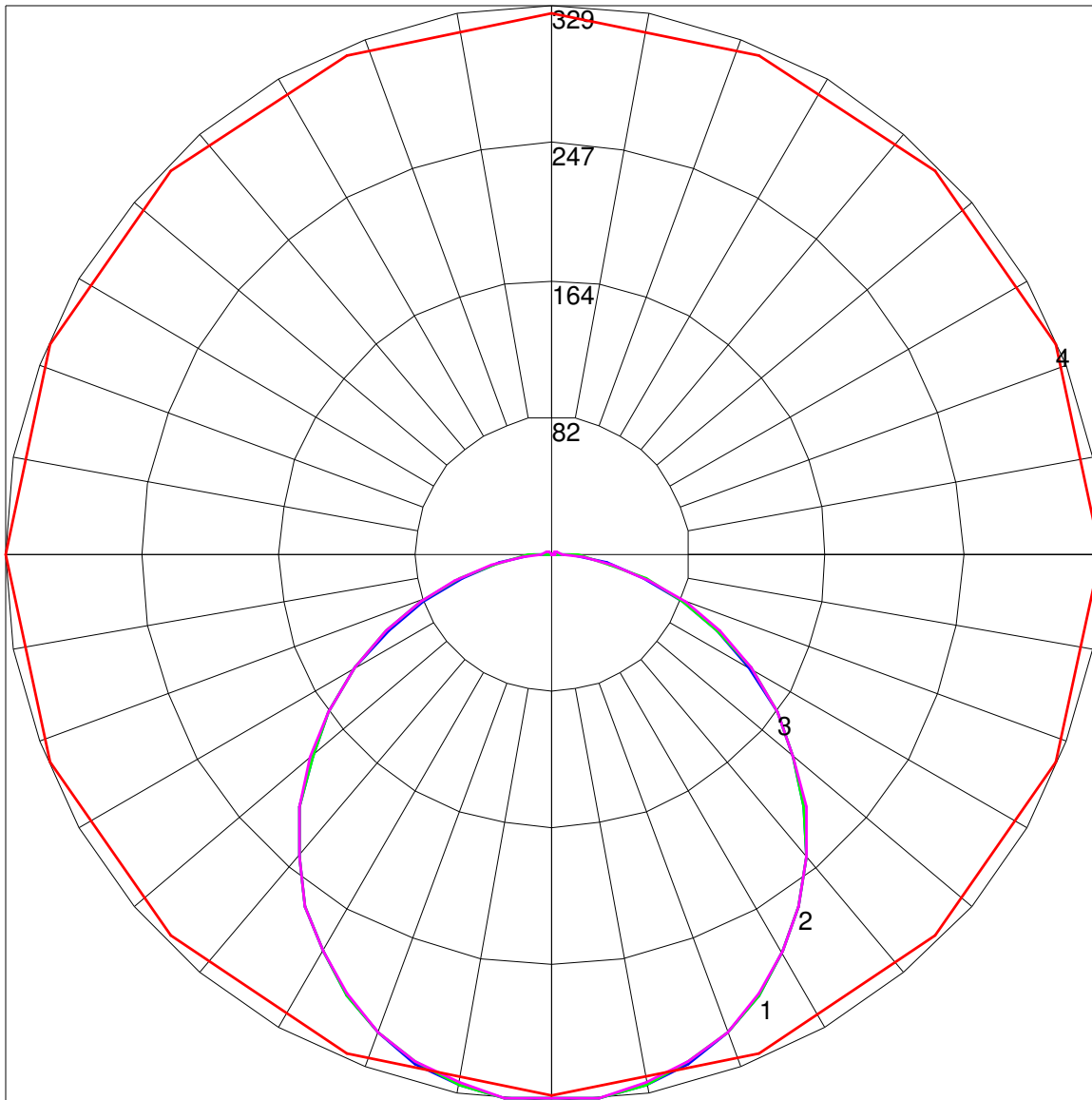
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.6	20.2	19.0	20.6	21.0	20.3	21.8	20.7	22.2	22.7
	3H	20.1	21.5	20.5	21.9	22.4	22.5	24.0	23.0	24.4	24.8
	4H	20.5	21.9	21.0	22.3	22.8	23.6	25.0	24.1	25.4	25.9
	6H	20.8	22.1	21.3	22.5	23.0	24.8	26.0	25.2	26.5	27.0
	8H	20.9	22.1	21.4	22.6	23.1	25.3	26.6	25.8	27.0	27.5
	12H	20.9	22.1	21.4	22.5	23.1	26.0	27.1	26.5	27.6	28.1
4H	2H	19.4	20.7	19.8	21.2	21.6	20.7	22.0	21.1	22.5	22.9
	3H	21.1	22.2	21.5	22.7	23.2	23.2	24.3	23.7	24.8	25.3
	4H	21.6	22.7	22.1	23.2	23.7	24.4	25.5	24.9	26.0	26.5
	6H	22.0	23.0	22.5	23.5	24.0	25.7	26.7	26.3	27.2	27.7
	8H	22.1	23.0	22.6	23.5	24.1	26.4	27.3	26.9	27.8	28.4
	12H	22.2	23.0	22.7	23.5	24.1	27.2	28.0	27.7	28.5	29.1
8H	4H	22.2	23.1	22.7	23.6	24.1	24.6	25.5	25.1	26.0	26.6
	6H	22.7	23.4	23.2	24.0	24.6	26.1	26.8	26.6	27.4	27.9
	8H	22.9	23.5	23.4	24.1	24.7	26.9	27.6	27.4	28.1	28.7
	12H	23.0	23.6	23.5	24.1	24.8	27.8	28.4	28.3	28.9	29.6
12H	4H	22.3	23.1	22.9	23.7	24.2	24.6	25.4	25.2	26.0	26.5
	6H	22.9	23.6	23.5	24.1	24.8	26.1	26.8	26.7	27.3	28.0
	8H	23.2	23.8	23.7	24.3	25.0	27.0	27.6	27.5	28.1	28.8

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 328.869 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.)