



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-835-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] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-6-L3-835-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	16.4
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)	6.00 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	7614	6127	5815
55	7199	5485	5245
65	6425	4719	4668
75	5412	3890	4154
85	3008	3233	3741

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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	579.521	579.521	579.521	579.521	579.521
5	581.418	578.573	574.779	573.831	574.779
10	572.882	570.037	566.243	566.243	568.140
15	560.552	557.706	553.912	554.861	554.861
20	541.582	538.737	533.994	537.788	538.737
25	517.870	515.025	514.076	516.922	518.819
30	488.467	488.467	488.467	492.261	491.313
35	457.167	457.167	457.167	460.961	463.807
40	419.228	420.177	421.125	427.765	431.558
45	378.444	381.289	384.134	391.722	394.568
50	333.865	336.710	343.350	354.732	360.422
55	291.183	292.132	304.462	313.947	322.483
60	241.862	246.605	263.677	281.699	287.389
65	192.541	200.129	220.047	239.965	248.502
70	147.014	154.602	179.263	203.923	211.511
75	100.539	113.818	141.324	168.829	180.211
80	58.806	73.033	110.024	137.530	149.860
85	19.918	46.476	80.621	108.127	120.457
90	0.000	25.609	59.754	84.415	93.900
95	0.000	13.279	40.785	65.445	73.981
100	0.000	6.639	28.454	48.372	56.909
105	0.000	3.794	19.918	35.094	42.682
110	0.000	2.845	13.279	25.609	30.351
115	0.000	1.897	8.536	18.021	22.764
120	0.000	0.000	4.742	11.382	14.227
125	0.000	0.000	3.794	7.588	9.485
130	0.000	0.000	0.000	4.742	5.691
135	0.000	0.000	0.000	0.000	3.794
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	211.59	N.A.	11.50
0-30	449.41	N.A.	24.40
0-40	736.36	N.A.	40.00
0-60	1306.74	N.A.	71.00
0-80	1675.53	N.A.	91.00
0-90	1760.88	N.A.	95.70
10-90	1706.12	N.A.	92.70
20-40	524.77	N.A.	28.50
20-50	822.45	N.A.	44.70
40-70	789.26	N.A.	42.90
60-80	368.79	N.A.	20.00
70-80	149.91	N.A.	8.10
80-90	85.35	N.A.	4.60
90-110	65.59	N.A.	3.60
90-120	75.54	N.A.	4.10
90-130	79.11	N.A.	4.30
90-150	79.67	N.A.	4.30
90-180	79.67	N.A.	4.30
110-180	14.09	N.A.	0.80
0-180	1840.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.76
10-20	156.83
20-30	237.81
30-40	286.95
40-50	297.68
50-60	272.70
60-70	218.88
70-80	149.91
80-90	85.35
90-100	43.78
100-110	21.80
110-120	9.96
120-130	3.56
130-140	0.57
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

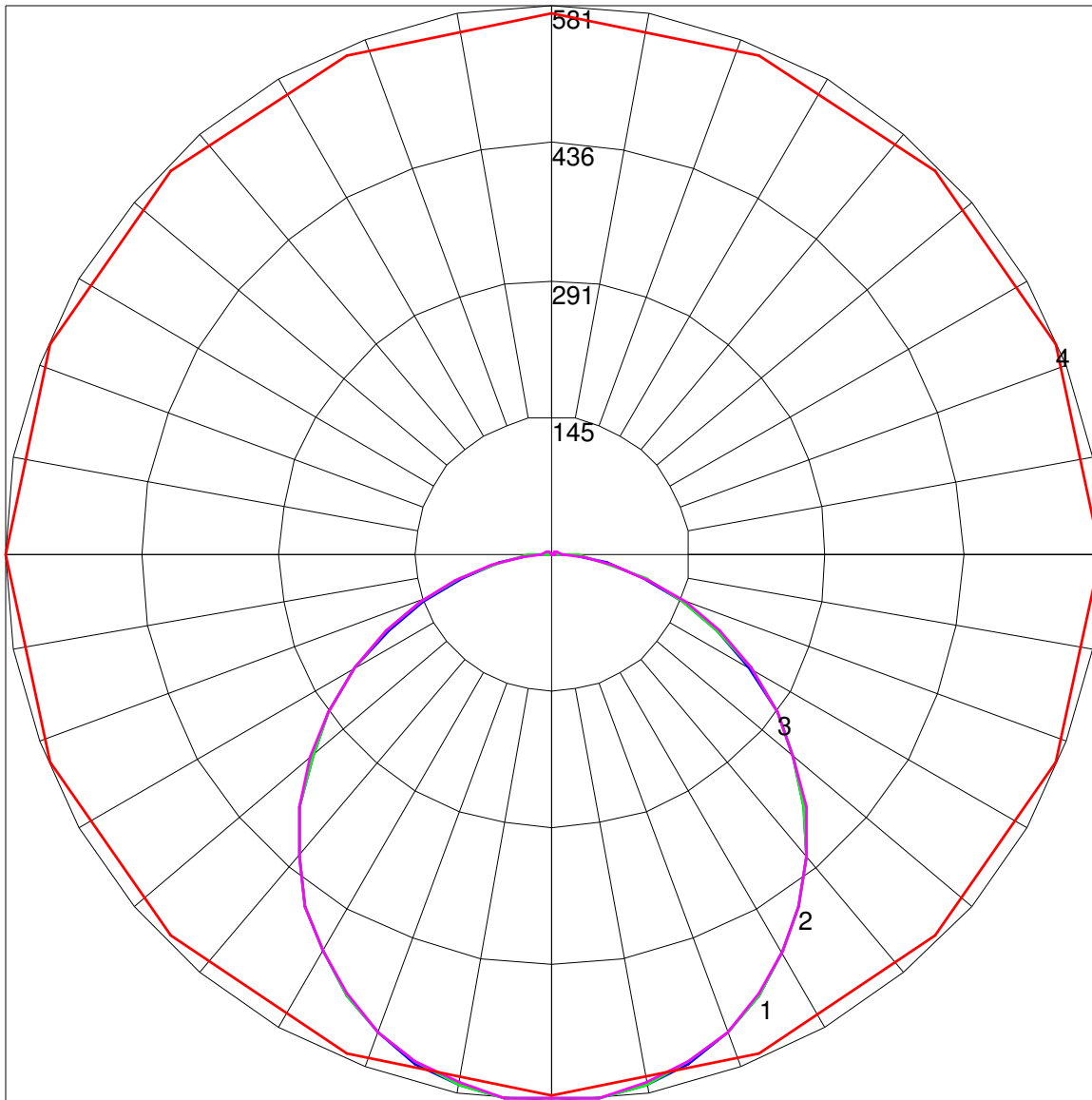
Reflectances

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	16.8	18.4	17.2	18.8	19.2	18.5	20.1	18.9	20.5	20.9
	3H	18.3	19.7	18.7	20.1	20.6	20.8	22.3	21.2	22.7	23.1
	4H	18.7	20.1	19.2	20.5	21.0	21.9	23.3	22.4	23.7	24.2
	6H	19.0	20.3	19.5	20.7	21.2	23.1	24.4	23.6	24.8	25.3
	8H	19.1	20.3	19.6	20.8	21.3	23.7	24.9	24.2	25.4	25.9
	12H	19.1	20.3	19.6	20.7	21.3	24.4	25.5	24.8	26.0	26.5
4H	2H	17.6	18.9	18.0	19.4	19.8	18.9	20.3	19.4	20.7	21.2
	3H	19.3	20.4	19.7	20.9	21.4	21.4	22.6	21.9	23.1	23.6
	4H	19.8	20.9	20.3	21.4	21.9	22.7	23.8	23.2	24.3	24.8
	6H	20.2	21.2	20.7	21.7	22.2	24.1	25.0	24.6	25.5	26.0
	8H	20.3	21.2	20.8	21.7	22.3	24.8	25.6	25.3	26.1	26.7
	12H	20.4	21.2	20.9	21.7	22.3	25.5	26.3	26.1	26.9	27.4
8H	4H	20.4	21.3	20.9	21.8	22.3	22.9	23.8	23.4	24.3	24.9
	6H	20.9	21.7	21.4	22.2	22.8	24.4	25.1	24.9	25.7	26.3
	8H	21.1	21.8	21.6	22.3	22.9	25.2	25.9	25.8	26.5	27.0
	12H	21.2	21.8	21.8	22.3	23.0	26.2	26.8	26.7	27.3	28.0
12H	4H	20.5	21.3	21.1	21.9	22.4	22.9	23.7	23.4	24.3	24.8
	6H	21.1	21.8	21.7	22.4	23.0	24.4	25.1	25.0	25.6	26.3
	8H	21.4	22.0	21.9	22.5	23.2	25.3	25.9	25.9	26.5	27.1

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 581.418 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.)