



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-835-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-L5-835-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	12352	10006	9579
55	11603	8935	8641
65	10246	7659	7690
75	8436	6279	6844
85	4255	5167	6163

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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	318.249	318.249	318.249	318.249	318.249
5	319.291	317.728	315.645	315.124	315.645
10	314.603	313.040	310.957	310.957	311.999
15	307.832	306.269	304.186	304.706	304.706
20	297.414	295.852	293.247	295.331	295.852
25	284.393	282.830	282.309	283.872	284.913
30	268.246	268.246	268.246	270.329	269.808
35	251.057	251.057	251.057	253.141	254.703
40	230.223	230.743	231.264	234.910	236.994
45	207.825	209.388	210.951	215.118	216.680
50	183.345	184.907	188.553	194.804	197.929
55	159.906	160.427	167.198	172.407	177.094
60	132.821	135.425	144.801	154.697	157.822
65	105.736	109.903	120.841	131.779	136.467
70	80.734	84.901	98.444	111.986	116.153
75	55.212	62.504	77.609	92.714	98.964
80	32.294	40.107	60.420	75.526	82.297
85	10.938	25.522	44.274	59.379	66.150
90	0.000	14.063	32.815	46.357	51.566
95	0.000	7.292	22.397	35.940	40.628
100	0.000	3.646	15.626	26.564	31.252
105	0.000	2.083	10.938	19.272	23.439
110	0.000	1.563	7.292	14.063	16.668
115	0.000	1.042	4.688	9.896	12.501
120	0.000	0.000	2.604	6.250	7.813
125	0.000	0.000	2.083	4.167	5.209
130	0.000	0.000	0.000	2.604	3.125
135	0.000	0.000	0.000	0.000	2.083
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	116.20	N.A.	11.50
0-30	246.80	N.A.	24.40
0-40	404.38	N.A.	40.00
0-60	717.61	N.A.	71.00
0-80	920.13	N.A.	91.00
0-90	967.00	N.A.	95.70
10-90	936.93	N.A.	92.70
20-40	288.18	N.A.	28.50
20-50	451.65	N.A.	44.70
40-70	433.43	N.A.	42.90
60-80	202.52	N.A.	20.00
70-80	82.32	N.A.	8.10
80-90	46.87	N.A.	4.60
90-110	36.02	N.A.	3.60
90-120	41.49	N.A.	4.10
90-130	43.44	N.A.	4.30
90-150	43.75	N.A.	4.30
90-180	43.75	N.A.	4.30
110-180	7.74	N.A.	0.80
0-180	1010.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.07
10-20	86.12
20-30	130.60
30-40	157.58
40-50	163.47
50-60	149.76
60-70	120.20
70-80	82.32
80-90	46.87
90-100	24.04
100-110	11.97
110-120	5.47
120-130	1.96
130-140	0.31
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

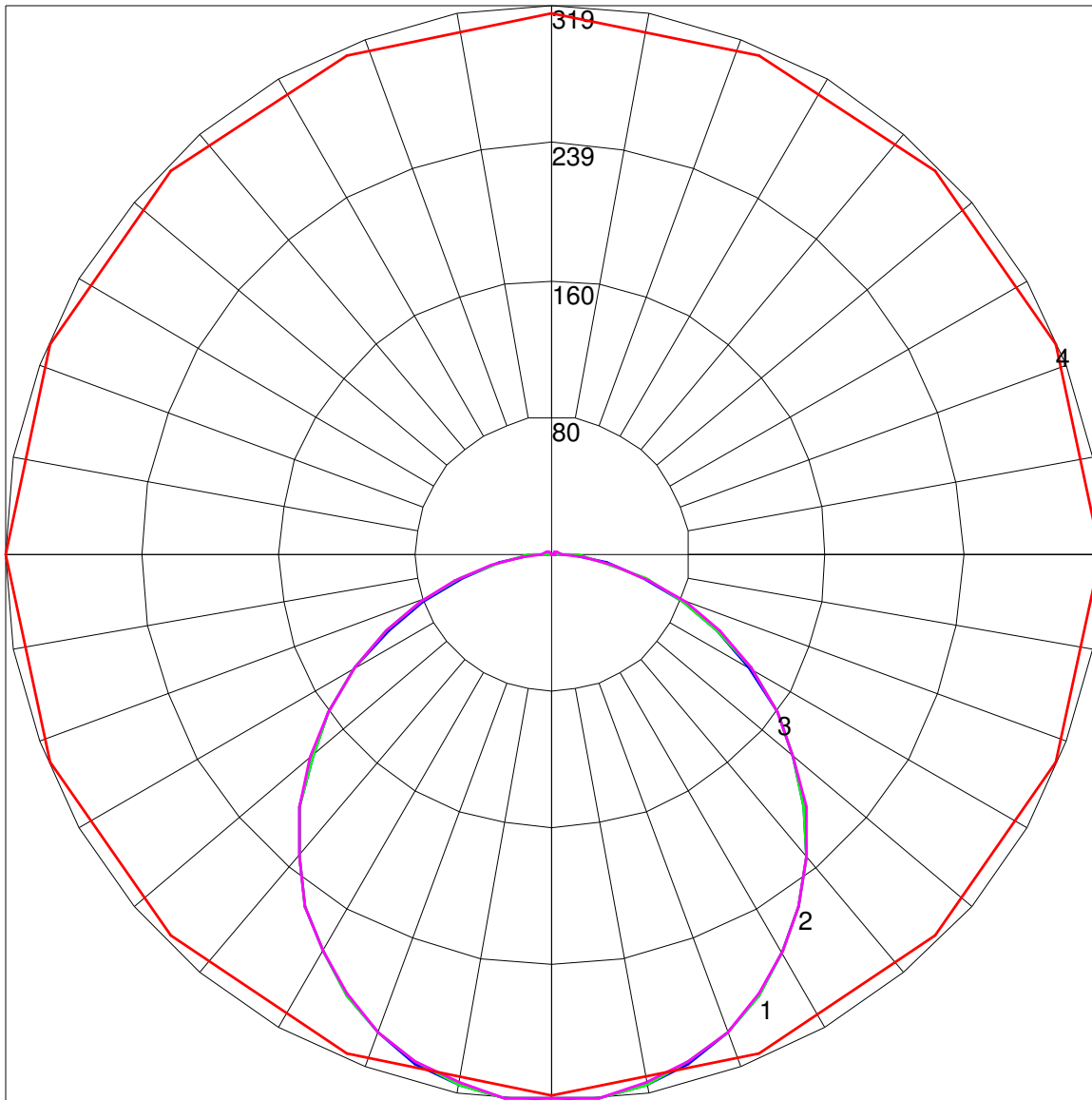
Reflectances

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	18.5	20.1	18.9	20.5	20.9	20.2	21.7	20.6	22.1	22.5
	3H	20.0	21.4	20.4	21.8	22.3	22.4	23.9	22.9	24.3	24.7
	4H	20.4	21.8	20.9	22.2	22.7	23.5	24.9	24.0	25.3	25.8
	6H	20.7	22.0	21.2	22.4	22.9	24.7	25.9	25.1	26.4	26.9
	8H	20.8	22.0	21.3	22.5	23.0	25.2	26.5	25.7	26.9	27.4
	12H	20.8	22.0	21.3	22.4	23.0	25.9	27.0	26.4	27.5	28.0
4H	2H	19.3	20.6	19.7	21.1	21.5	20.6	21.9	21.0	22.4	22.8
	3H	20.9	22.1	21.4	22.6	23.1	23.1	24.2	23.6	24.7	25.2
	4H	21.5	22.6	22.0	23.1	23.6	24.3	25.4	24.8	25.9	26.4
	6H	21.9	22.9	22.4	23.4	23.9	25.6	26.6	26.2	27.1	27.6
	8H	22.0	22.9	22.5	23.4	24.0	26.3	27.2	26.8	27.7	28.3
	12H	22.1	22.9	22.6	23.4	24.0	27.1	27.8	27.6	28.4	29.0
8H	4H	22.1	23.0	22.6	23.5	24.0	24.5	25.4	25.0	25.9	26.5
	6H	22.6	23.3	23.1	23.9	24.5	26.0	26.7	26.5	27.3	27.8
	8H	22.8	23.4	23.3	24.0	24.6	26.8	27.4	27.3	28.0	28.6
	12H	22.9	23.5	23.4	24.0	24.7	27.7	28.3	28.2	28.8	29.5
12H	4H	22.2	23.0	22.8	23.6	24.1	24.5	25.3	25.1	25.9	26.4
	6H	22.8	23.5	23.4	24.0	24.7	26.0	26.7	26.6	27.2	27.8
	8H	23.1	23.7	23.6	24.2	24.9	26.9	27.5	27.4	28.0	28.7

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 319.291 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.)