



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L5-830-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-L5-830-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	12229	9906	9484
55	11487	8845	8555
65	10143	7583	7613
75	8352	6216	6776
85	4213	5115	6101

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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	315.066	315.066	315.066	315.066	315.066
5	316.098	314.551	312.488	311.972	312.488
10	311.457	309.910	307.847	307.847	308.878
15	304.753	303.206	301.144	301.659	301.659
20	294.440	292.893	290.315	292.377	292.893
25	281.549	280.002	279.486	281.033	282.064
30	265.563	265.563	265.563	267.626	267.110
35	248.547	248.547	248.547	250.609	252.156
40	227.920	228.436	228.952	232.561	234.624
45	205.747	207.294	208.841	212.966	214.513
50	181.511	183.058	186.668	192.856	195.950
55	158.307	158.822	165.526	170.682	175.323
60	131.493	134.071	143.353	153.150	156.244
65	104.678	108.804	119.632	130.461	135.102
70	79.927	84.052	97.459	110.866	114.991
75	54.660	61.879	76.833	91.787	97.975
80	31.971	39.706	59.816	74.770	81.474
85	10.829	25.267	43.831	58.785	65.488
90	0.000	13.923	32.486	45.893	51.050
95	0.000	7.219	22.173	35.580	40.221
100	0.000	3.610	15.470	26.299	30.939
105	0.000	2.063	10.829	19.079	23.205
110	0.000	1.547	7.219	13.923	16.501
115	0.000	1.031	4.641	9.797	12.376
120	0.000	0.000	2.578	6.188	7.735
125	0.000	0.000	2.063	4.125	5.157
130	0.000	0.000	0.000	2.578	3.094
135	0.000	0.000	0.000	0.000	2.063
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	115.04	N.A.	11.50
0-30	244.33	N.A.	24.40
0-40	400.33	N.A.	40.00
0-60	710.43	N.A.	71.00
0-80	910.93	N.A.	91.00
0-90	957.33	N.A.	95.70
10-90	927.56	N.A.	92.70
20-40	285.30	N.A.	28.50
20-50	447.14	N.A.	44.70
40-70	429.09	N.A.	42.90
60-80	200.50	N.A.	20.00
70-80	81.50	N.A.	8.10
80-90	46.40	N.A.	4.60
90-110	35.66	N.A.	3.60
90-120	41.07	N.A.	4.10
90-130	43.01	N.A.	4.30
90-150	43.32	N.A.	4.30
90-180	43.32	N.A.	4.30
110-180	7.66	N.A.	0.80
0-180	1000.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.77
10-20	85.26
20-30	129.29
30-40	156.01
40-50	161.84
50-60	148.26
60-70	119.00
70-80	81.50
80-90	46.40
90-100	23.80
100-110	11.85
110-120	5.41
120-130	1.94
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	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	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

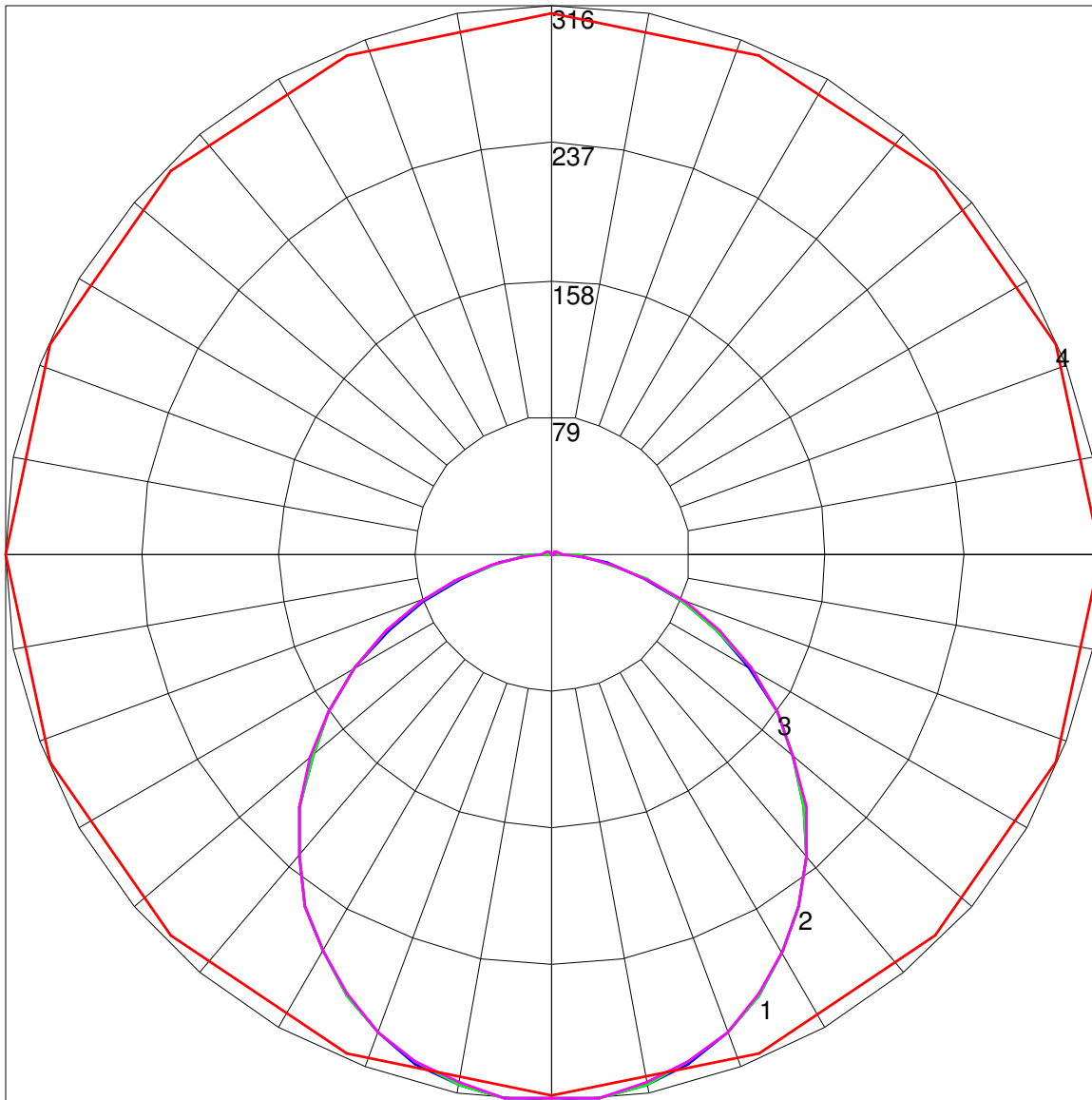
Reflectances

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	20.1	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	23.5	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	26.1	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	27.0	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 = 316.098 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.)