



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L5-850-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-L5-850-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	13093	10606	10154
55	12299	9471	9160
65	10861	8119	8151
75	8942	6656	7255
85	4511	5477	6532

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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	337.344	337.344	337.344	337.344	337.344
5	338.448	336.792	334.583	334.031	334.583
10	333.479	331.823	329.614	329.614	330.718
15	326.301	324.645	322.437	322.989	322.989
20	315.259	313.603	310.842	313.051	313.603
25	301.456	299.800	299.248	300.904	302.008
30	284.341	284.341	284.341	286.549	285.997
35	266.121	266.121	266.121	268.329	269.985
40	244.036	244.588	245.140	249.005	251.213
45	220.295	221.951	223.608	228.025	229.681
50	194.345	196.002	199.867	206.492	209.805
55	169.500	170.052	177.230	182.751	187.720
60	140.790	143.551	153.489	163.979	167.292
65	112.080	116.497	128.091	139.686	144.655
70	85.578	89.995	104.350	118.705	123.122
75	58.524	66.254	82.266	98.277	104.902
80	34.231	42.513	64.046	80.057	87.235
85	11.594	27.054	46.930	62.941	70.119
90	0.000	14.907	34.783	49.138	54.660
95	0.000	7.730	23.741	38.096	43.065
100	0.000	3.865	16.564	28.158	33.127
105	0.000	2.208	11.594	20.428	24.845
110	0.000	1.656	7.730	14.907	17.668
115	0.000	1.104	4.969	10.490	13.251
120	0.000	0.000	2.761	6.625	8.282
125	0.000	0.000	2.208	4.417	5.521
130	0.000	0.000	0.000	2.761	3.313
135	0.000	0.000	0.000	0.000	2.208
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	123.17	N.A.	11.50
0-30	261.60	N.A.	24.40
0-40	428.64	N.A.	40.00
0-60	760.66	N.A.	71.00
0-80	975.34	N.A.	91.00
0-90	1025.02	N.A.	95.70
10-90	993.14	N.A.	92.70
20-40	305.47	N.A.	28.50
20-50	478.75	N.A.	44.70
40-70	459.43	N.A.	42.90
60-80	214.67	N.A.	20.00
70-80	87.26	N.A.	8.10
80-90	49.68	N.A.	4.60
90-110	38.18	N.A.	3.60
90-120	43.97	N.A.	4.10
90-130	46.05	N.A.	4.30
90-150	46.38	N.A.	4.30
90-180	46.38	N.A.	4.30
110-180	8.20	N.A.	0.80
0-180	1071.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.88
10-20	91.29
20-30	138.43
30-40	167.04
40-50	173.28
50-60	158.74
60-70	127.41
70-80	87.26
80-90	49.68
90-100	25.49
100-110	12.69
110-120	5.80
120-130	2.07
130-140	0.33
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	56	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	33	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

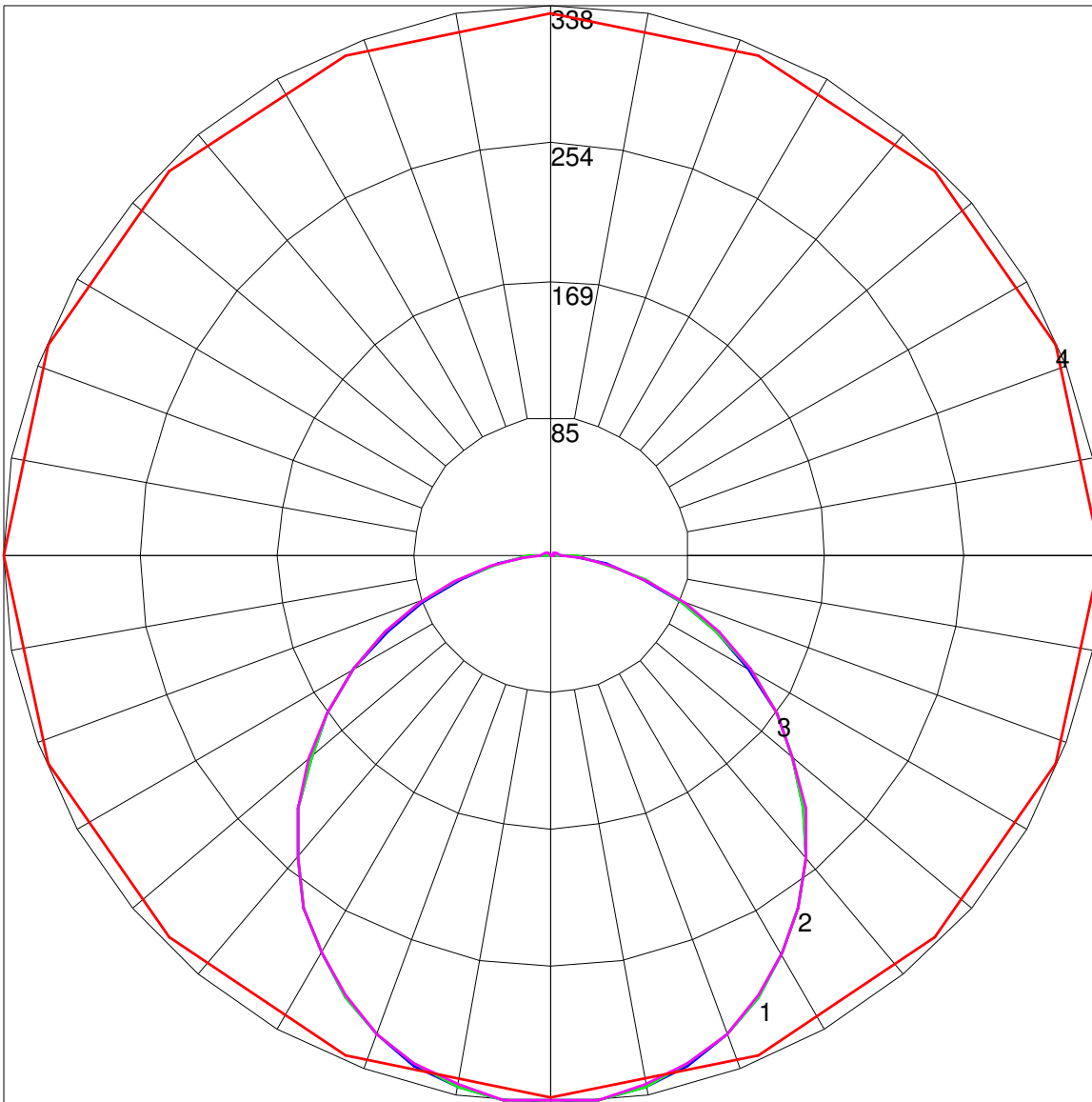
Reflectances

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	18.7	20.3	19.1	20.7	21.1	20.4	21.9	20.8	22.3	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.6	24.1	23.1	24.5	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.7	25.1	24.2	25.5	26.0
	6H	20.9	22.2	21.4	22.7	23.1	24.9	26.1	25.3	26.6	27.1
	8H	21.0	22.2	21.5	22.7	23.2	25.5	26.7	25.9	27.1	27.6
	12H	21.0	22.2	21.5	22.6	23.2	26.1	27.2	26.6	27.7	28.2
4H	2H	19.5	20.8	19.9	21.3	21.7	20.8	22.1	21.2	22.6	23.0
	3H	21.2	22.3	21.6	22.8	23.3	23.3	24.4	23.8	24.9	25.4
	4H	21.7	22.8	22.2	23.3	23.8	24.5	25.6	25.0	26.1	26.6
	6H	22.1	23.1	22.6	23.6	24.1	25.8	26.8	26.4	27.3	27.8
	8H	22.2	23.1	22.7	23.6	24.2	26.5	27.4	27.0	27.9	28.5
	12H	22.3	23.1	22.8	23.6	24.2	27.3	28.1	27.8	28.6	29.2
8H	4H	22.3	23.2	22.8	23.7	24.2	24.7	25.6	25.2	26.1	26.7
	6H	22.8	23.5	23.4	24.1	24.7	26.2	26.9	26.7	27.5	28.1
	8H	23.0	23.6	23.5	24.2	24.8	27.0	27.7	27.5	28.2	28.8
	12H	23.1	23.7	23.6	24.2	24.9	27.9	28.5	28.5	29.0	29.7
12H	4H	22.4	23.2	23.0	23.8	24.3	24.7	25.5	25.3	26.1	26.6
	6H	23.0	23.7	23.6	24.2	24.9	26.2	26.9	26.8	27.4	28.1
	8H	23.3	23.9	23.8	24.4	25.1	27.1	27.7	27.6	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 338.448 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.)