



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L5-930-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] 48 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-4-L5-930-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	17.3
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)	4.00 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	10247	8259	7855
55	9671	7389	7086
65	8608	6351	6305
75	7208	5228	5612
85	3903	4334	5053

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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	521.928	521.928	521.928	521.928	521.928
5	523.637	521.074	517.657	516.803	517.657
10	515.949	513.386	509.969	509.969	511.677
15	504.844	502.281	498.864	499.718	499.718
20	487.759	485.197	480.926	484.342	485.197
25	466.404	463.841	462.987	465.550	467.258
30	439.923	439.923	439.923	443.340	442.486
35	411.734	411.734	411.734	415.151	417.713
40	377.565	378.419	379.273	385.253	388.670
45	340.834	343.396	345.959	352.793	355.355
50	300.685	303.248	309.227	319.478	324.603
55	262.245	263.100	274.204	282.747	290.435
60	217.826	222.097	237.473	253.703	258.829
65	173.407	180.240	198.179	216.118	223.806
70	132.404	139.238	161.447	183.657	190.491
75	90.547	102.506	127.279	152.051	162.302
80	52.962	65.775	99.089	123.862	134.967
85	17.939	41.857	72.609	97.381	108.486
90	0.000	23.064	53.816	76.026	84.568
95	0.000	11.959	36.731	58.941	66.629
100	0.000	5.980	25.627	43.565	51.253
105	0.000	3.417	17.939	31.606	38.440
110	0.000	2.563	11.959	23.064	27.335
115	0.000	1.708	7.688	16.230	20.501
120	0.000	0.000	4.271	10.251	12.813
125	0.000	0.000	3.417	6.834	8.542
130	0.000	0.000	0.000	4.271	5.125
135	0.000	0.000	0.000	0.000	3.417
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	190.57	N.A.	11.50
0-30	404.74	N.A.	24.40
0-40	663.18	N.A.	40.00
0-60	1176.88	N.A.	71.00
0-80	1509.01	N.A.	91.00
0-90	1585.88	N.A.	95.70
10-90	1536.56	N.A.	92.70
20-40	472.62	N.A.	28.50
20-50	740.71	N.A.	44.70
40-70	710.82	N.A.	42.90
60-80	332.14	N.A.	20.00
70-80	135.01	N.A.	8.10
80-90	76.87	N.A.	4.60
90-110	59.07	N.A.	3.60
90-120	68.04	N.A.	4.10
90-130	71.25	N.A.	4.30
90-150	71.76	N.A.	4.30
90-180	71.76	N.A.	4.30
110-180	12.69	N.A.	0.80
0-180	1657.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.32
10-20	141.24
20-30	214.18
30-40	258.44
40-50	268.10
50-60	245.60
60-70	197.12
70-80	135.01
80-90	76.87
90-100	39.43
100-110	19.64
110-120	8.97
120-130	3.21
130-140	0.51
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

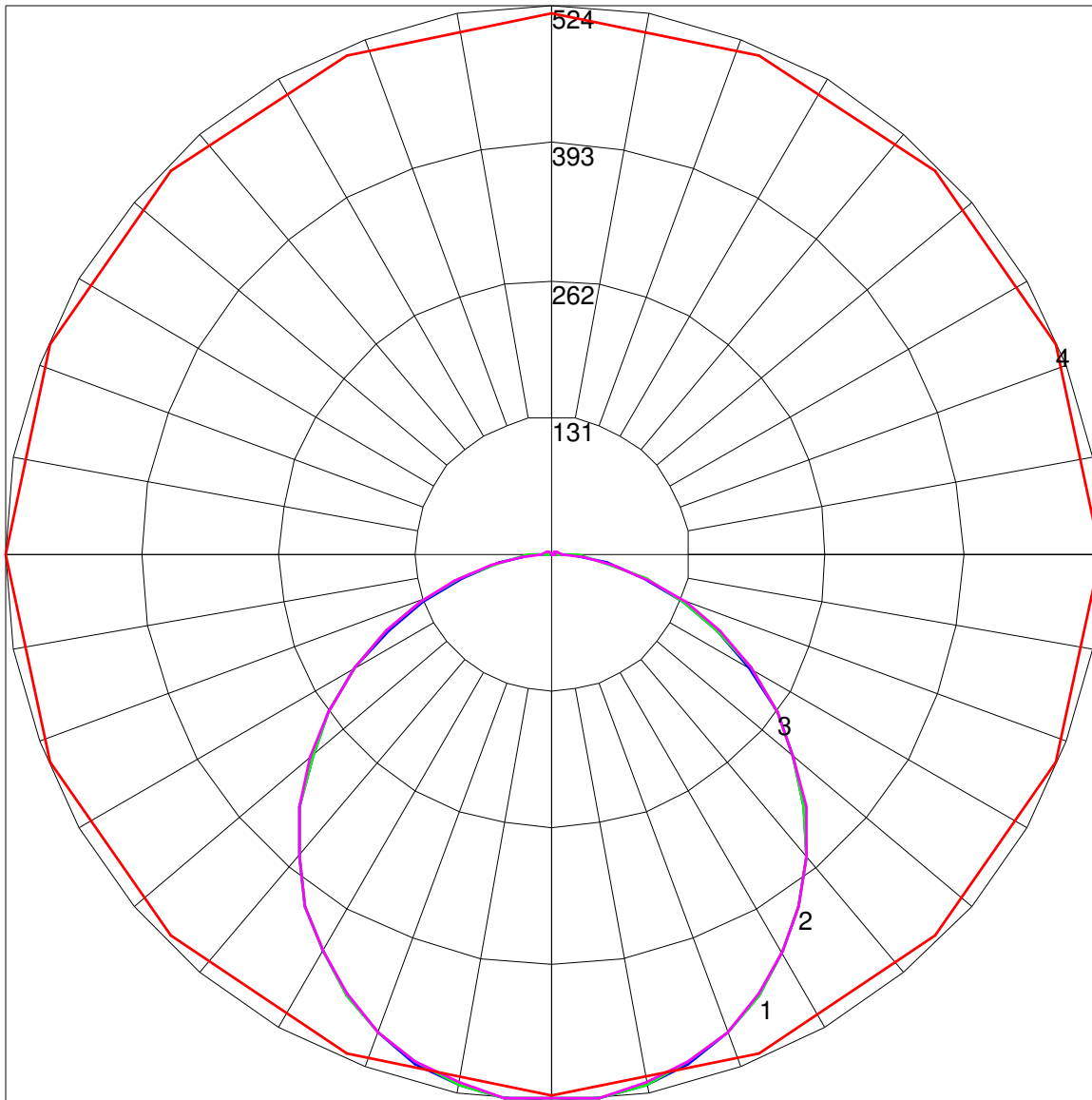
Reflectances

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	17.9	19.5	18.3	19.9	20.3	19.6	21.2	20.0	21.6	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.9	23.3	22.3	23.7	24.2
	4H	19.8	21.2	20.3	21.6	22.1	23.0	24.4	23.5	24.8	25.3
	6H	20.1	21.4	20.6	21.8	22.3	24.2	25.4	24.6	25.9	26.4
	8H	20.2	21.4	20.7	21.9	22.4	24.7	26.0	25.2	26.4	26.9
	12H	20.2	21.4	20.7	21.8	22.4	25.4	26.6	25.9	27.0	27.6
4H	2H	18.7	20.0	19.1	20.5	20.9	20.0	21.4	20.5	21.8	22.3
	3H	20.4	21.5	20.8	22.0	22.5	22.5	23.7	23.0	24.2	24.7
	4H	20.9	22.0	21.4	22.5	23.0	23.8	24.9	24.3	25.3	25.9
	6H	21.3	22.3	21.9	22.8	23.3	25.1	26.1	25.6	26.6	27.1
	8H	21.4	22.3	22.0	22.8	23.4	25.8	26.7	26.3	27.2	27.8
	12H	21.5	22.3	22.0	22.8	23.4	26.6	27.4	27.1	27.9	28.5
8H	4H	21.5	22.4	22.0	22.9	23.4	24.0	24.9	24.5	25.4	25.9
	6H	22.0	22.8	22.6	23.3	23.9	25.5	26.2	26.0	26.8	27.3
	8H	22.2	22.9	22.7	23.4	24.0	26.3	27.0	26.8	27.5	28.1
	12H	22.3	22.9	22.9	23.4	24.1	27.2	27.8	27.8	28.4	29.0
12H	4H	21.6	22.4	22.2	23.0	23.5	24.0	24.8	24.5	25.3	25.9
	6H	22.2	22.9	22.8	23.5	24.1	25.5	26.2	26.1	26.7	27.3
	8H	22.5	23.1	23.0	23.6	24.3	26.4	27.0	26.9	27.5	28.2

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 523.637 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.)