



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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] 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-L5-930-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	10129	8205	7855
55	9514	7326	7086
65	8401	6281	6305
75	6918	5149	5612
85	3489	4237	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	260.964	260.964	260.964	260.964	260.964
5	261.818	260.537	258.828	258.401	258.828
10	257.974	256.693	254.984	254.984	255.839
15	252.422	251.140	249.432	249.859	249.859
20	243.880	242.598	240.463	242.171	242.598
25	233.202	231.921	231.493	232.775	233.629
30	219.961	219.961	219.961	221.670	221.243
35	205.867	205.867	205.867	207.575	208.857
40	188.782	189.210	189.637	192.626	194.335
45	170.417	171.698	172.979	176.396	177.678
50	150.343	151.624	154.614	159.739	162.302
55	131.123	131.550	137.102	141.373	145.217
60	108.913	111.049	118.736	126.852	129.414
65	86.703	90.120	99.089	108.059	111.903
70	66.202	69.619	80.724	91.829	95.245
75	45.274	51.253	63.639	76.026	81.151
80	26.481	32.887	49.545	61.931	67.483
85	8.969	20.928	36.304	48.691	54.243
90	0.000	11.532	26.908	38.013	42.284
95	0.000	5.980	18.366	29.471	33.315
100	0.000	2.990	12.813	21.783	25.627
105	0.000	1.708	8.969	15.803	19.220
110	0.000	1.281	5.980	11.532	13.668
115	0.000	0.854	3.844	8.115	10.251
120	0.000	0.000	2.136	5.125	6.407
125	0.000	0.000	1.708	3.417	4.271
130	0.000	0.000	0.000	2.136	2.563
135	0.000	0.000	0.000	0.000	1.708
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	95.28	N.A.	11.50
0-30	202.37	N.A.	24.40
0-40	331.59	N.A.	40.00
0-60	588.44	N.A.	71.00
0-80	754.51	N.A.	91.00
0-90	792.94	N.A.	95.70
10-90	768.28	N.A.	92.70
20-40	236.31	N.A.	28.50
20-50	370.36	N.A.	44.70
40-70	355.41	N.A.	42.90
60-80	166.07	N.A.	20.00
70-80	67.51	N.A.	8.10
80-90	38.44	N.A.	4.60
90-110	29.53	N.A.	3.60
90-120	34.02	N.A.	4.10
90-130	35.62	N.A.	4.30
90-150	35.88	N.A.	4.30
90-180	35.88	N.A.	4.30
110-180	6.34	N.A.	0.80
0-180	828.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.66
10-20	70.62
20-30	107.09
30-40	129.22
40-50	134.05
50-60	122.80
60-70	98.56
70-80	67.51
80-90	38.44
90-100	19.72
100-110	9.82
110-120	4.48
120-130	1.60
130-140	0.26
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

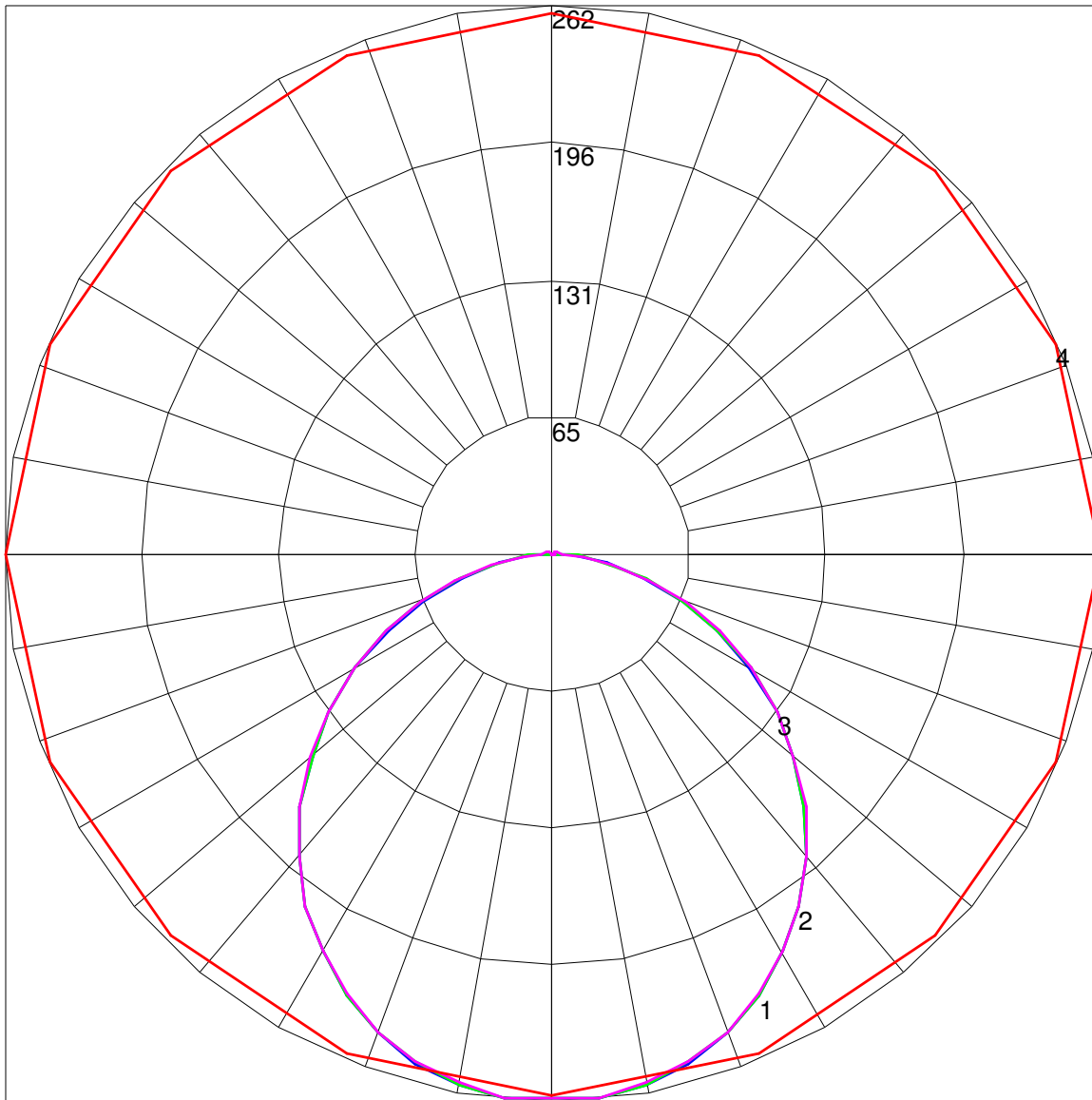
Reflectances

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	17.8	19.4	18.2	19.8	20.2	19.5	21.0	19.9	21.4	21.8
	3H	19.3	20.7	19.7	21.1	21.6	21.7	23.2	22.2	23.6	24.0
	4H	19.7	21.1	20.2	21.5	22.0	22.8	24.2	23.3	24.6	25.1
	6H	20.0	21.3	20.5	21.7	22.2	24.0	25.2	24.4	25.7	26.2
	8H	20.1	21.3	20.6	21.8	22.3	24.5	25.8	25.0	26.2	26.7
	12H	20.1	21.3	20.6	21.7	22.3	25.2	26.3	25.7	26.8	27.3
4H	2H	18.6	19.9	19.0	20.4	20.8	19.9	21.2	20.3	21.7	22.1
	3H	20.2	21.4	20.7	21.9	22.4	22.4	23.5	22.9	24.0	24.5
	4H	20.8	21.9	21.3	22.4	22.9	23.6	24.7	24.1	25.2	25.7
	6H	21.2	22.2	21.7	22.7	23.2	24.9	25.9	25.5	26.4	26.9
	8H	21.3	22.2	21.8	22.7	23.3	25.6	26.5	26.1	27.0	27.6
	12H	21.4	22.2	21.9	22.7	23.3	26.4	27.1	26.9	27.7	28.3
8H	4H	21.4	22.3	21.9	22.8	23.3	23.8	24.7	24.3	25.2	25.8
	6H	21.9	22.6	22.4	23.2	23.8	25.3	26.0	25.8	26.6	27.1
	8H	22.1	22.7	22.6	23.3	23.9	26.1	26.7	26.6	27.3	27.9
	12H	22.2	22.8	22.7	23.3	24.0	27.0	27.6	27.5	28.1	28.8
12H	4H	21.5	22.3	22.1	22.9	23.4	23.8	24.6	24.4	25.2	25.7
	6H	22.1	22.8	22.7	23.3	24.0	25.3	26.0	25.9	26.5	27.1
	8H	22.4	23.0	22.9	23.5	24.2	26.2	26.8	26.7	27.3	28.0

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 261.818 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.)