



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L3-930-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
[ISSUE DATE] 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-L3-930-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	5.5
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	6242	5056	4841
55	5863	4515	4366
65	5177	3870	3886
75	4263	3173	3458
85	2150	2611	3114

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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	160.812	160.812	160.812	160.812	160.812
5	161.338	160.548	159.496	159.232	159.496
10	158.969	158.180	157.127	157.127	157.653
15	155.548	154.758	153.705	153.969	153.969
20	150.284	149.494	148.178	149.231	149.494
25	143.704	142.914	142.651	143.441	143.967
30	135.545	135.545	135.545	136.598	136.335
35	126.860	126.860	126.860	127.912	128.702
40	116.332	116.595	116.858	118.701	119.753
45	105.014	105.804	106.594	108.699	109.489
50	92.644	93.434	95.276	98.435	100.014
55	80.801	81.064	84.485	87.117	89.486
60	67.115	68.430	73.168	78.169	79.748
65	53.428	55.534	61.061	66.588	68.957
70	40.795	42.901	49.744	56.587	58.692
75	27.899	31.583	39.216	46.849	50.007
80	16.318	20.266	30.531	38.163	41.585
85	5.527	12.897	22.372	30.004	33.426
90	0.000	7.106	16.581	23.424	26.056
95	0.000	3.685	11.317	18.160	20.529
100	0.000	1.842	7.896	13.423	15.792
105	0.000	1.053	5.527	9.738	11.844
110	0.000	0.790	3.685	7.106	8.422
115	0.000	0.526	2.369	5.001	6.317
120	0.000	0.000	1.316	3.158	3.948
125	0.000	0.000	1.053	2.106	2.632
130	0.000	0.000	0.000	1.316	1.579
135	0.000	0.000	0.000	0.000	1.053
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	58.72	N.A.	11.50
0-30	124.71	N.A.	24.40
0-40	204.33	N.A.	40.00
0-60	362.61	N.A.	71.00
0-80	464.94	N.A.	91.00
0-90	488.63	N.A.	95.70
10-90	473.43	N.A.	92.70
20-40	145.62	N.A.	28.50
20-50	228.22	N.A.	44.70
40-70	219.01	N.A.	42.90
60-80	102.33	N.A.	20.00
70-80	41.60	N.A.	8.10
80-90	23.68	N.A.	4.60
90-110	18.20	N.A.	3.60
90-120	20.96	N.A.	4.10
90-130	21.95	N.A.	4.30
90-150	22.11	N.A.	4.30
90-180	22.11	N.A.	4.30
110-180	3.91	N.A.	0.80
0-180	510.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.20
10-20	43.52
20-30	65.99
30-40	79.63
40-50	82.60
50-60	75.67
60-70	60.74
70-80	41.60
80-90	23.68
90-100	12.15
100-110	6.05
110-120	2.76
120-130	0.99
130-140	0.16
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	74	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	37	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	26	37	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

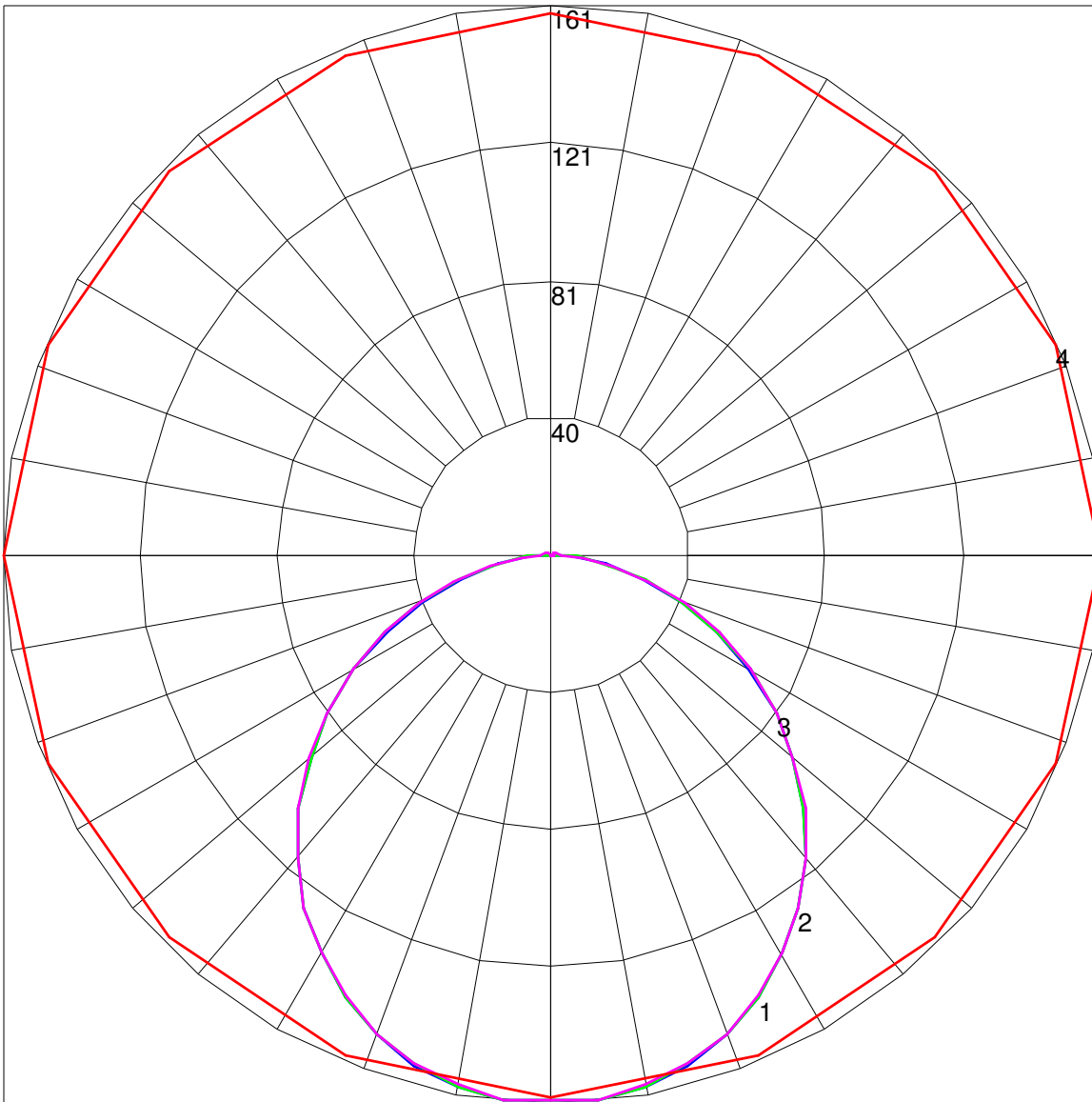
Reflectances

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	16.2	17.8	16.6	18.2	18.6	17.8	19.4	18.3	19.8	20.2
	3H	17.7	19.1	18.1	19.5	20.0	20.1	21.6	20.6	22.0	22.4
	4H	18.1	19.5	18.6	19.9	20.4	21.2	22.6	21.7	23.0	23.5
	6H	18.4	19.7	18.9	20.1	20.6	22.4	23.6	22.8	24.1	24.6
	8H	18.5	19.7	19.0	20.2	20.7	22.9	24.2	23.4	24.6	25.1
	12H	18.5	19.7	19.0	20.1	20.7	23.6	24.7	24.1	25.2	25.7
4H	2H	17.0	18.3	17.4	18.8	19.2	18.3	19.6	18.7	20.1	20.5
	3H	18.6	19.8	19.1	20.3	20.8	20.8	21.9	21.2	22.4	22.9
	4H	19.2	20.3	19.7	20.8	21.3	22.0	23.1	22.5	23.6	24.1
	6H	19.6	20.6	20.1	21.1	21.6	23.3	24.3	23.8	24.8	25.3
	8H	19.7	20.6	20.2	21.1	21.7	24.0	24.9	24.5	25.4	26.0
	12H	19.8	20.6	20.3	21.1	21.7	24.7	25.5	25.3	26.1	26.7
8H	4H	19.8	20.7	20.3	21.2	21.7	22.2	23.1	22.7	23.6	24.2
	6H	20.3	21.0	20.8	21.6	22.2	23.7	24.4	24.2	25.0	25.5
	8H	20.5	21.1	21.0	21.7	22.3	24.5	25.1	25.0	25.7	26.3
	12H	20.6	21.2	21.1	21.7	22.4	25.4	26.0	25.9	26.5	27.2
12H	4H	19.9	20.7	20.5	21.3	21.8	22.2	23.0	22.8	23.6	24.1
	6H	20.5	21.2	21.1	21.7	22.4	23.7	24.4	24.3	24.9	25.5
	8H	20.8	21.4	21.3	21.9	22.6	24.6	25.2	25.1	25.7	26.4

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 161.338 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.)