



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L3-935-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-L3-935-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	6318	5118	4900
55	5934	4570	4420
65	5240	3918	3933
75	4315	3211	3500
85	2176	2643	3152

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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	162.773	162.773	162.773	162.773	162.773
5	163.306	162.506	161.441	161.174	161.441
10	160.908	160.109	159.043	159.043	159.576
15	157.445	156.646	155.580	155.846	155.846
20	152.117	151.317	149.985	151.051	151.317
25	145.457	144.657	144.391	145.190	145.723
30	137.198	137.198	137.198	138.264	137.997
35	128.407	128.407	128.407	129.472	130.272
40	117.751	118.017	118.283	120.148	121.214
45	106.295	107.094	107.894	110.025	110.824
50	93.774	94.573	96.438	99.635	101.233
55	81.786	82.052	85.516	88.180	90.577
60	67.933	69.265	74.060	79.122	80.720
65	54.080	56.211	61.806	67.400	69.798
70	41.293	43.424	50.350	57.277	59.408
75	28.239	31.968	39.694	47.420	50.617
80	16.517	20.513	30.903	38.629	42.092
85	5.594	13.054	22.644	30.370	33.833
90	0.000	7.193	16.783	23.710	26.374
95	0.000	3.730	11.455	18.382	20.780
100	0.000	1.865	7.992	13.587	15.984
105	0.000	1.066	5.594	9.857	11.988
110	0.000	0.799	3.730	7.193	8.525
115	0.000	0.533	2.398	5.062	6.394
120	0.000	0.000	1.332	3.197	3.996
125	0.000	0.000	1.066	2.131	2.664
130	0.000	0.000	0.000	1.332	1.598
135	0.000	0.000	0.000	0.000	1.066
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	59.43	N.A.	11.50
0-30	126.23	N.A.	24.40
0-40	206.82	N.A.	40.00
0-60	367.03	N.A.	71.00
0-80	470.61	N.A.	91.00
0-90	494.59	N.A.	95.70
10-90	479.20	N.A.	92.70
20-40	147.39	N.A.	28.50
20-50	231.00	N.A.	44.70
40-70	221.68	N.A.	42.90
60-80	103.58	N.A.	20.00
70-80	42.11	N.A.	8.10
80-90	23.97	N.A.	4.60
90-110	18.42	N.A.	3.60
90-120	21.22	N.A.	4.10
90-130	22.22	N.A.	4.30
90-150	22.38	N.A.	4.30
90-180	22.38	N.A.	4.30
110-180	3.96	N.A.	0.80
0-180	516.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.38
10-20	44.05
20-30	66.80
30-40	80.60
40-50	83.61
50-60	76.59
60-70	61.48
70-80	42.11
80-90	23.97
90-100	12.30
100-110	6.12
110-120	2.80
120-130	1.00
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	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	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	30	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

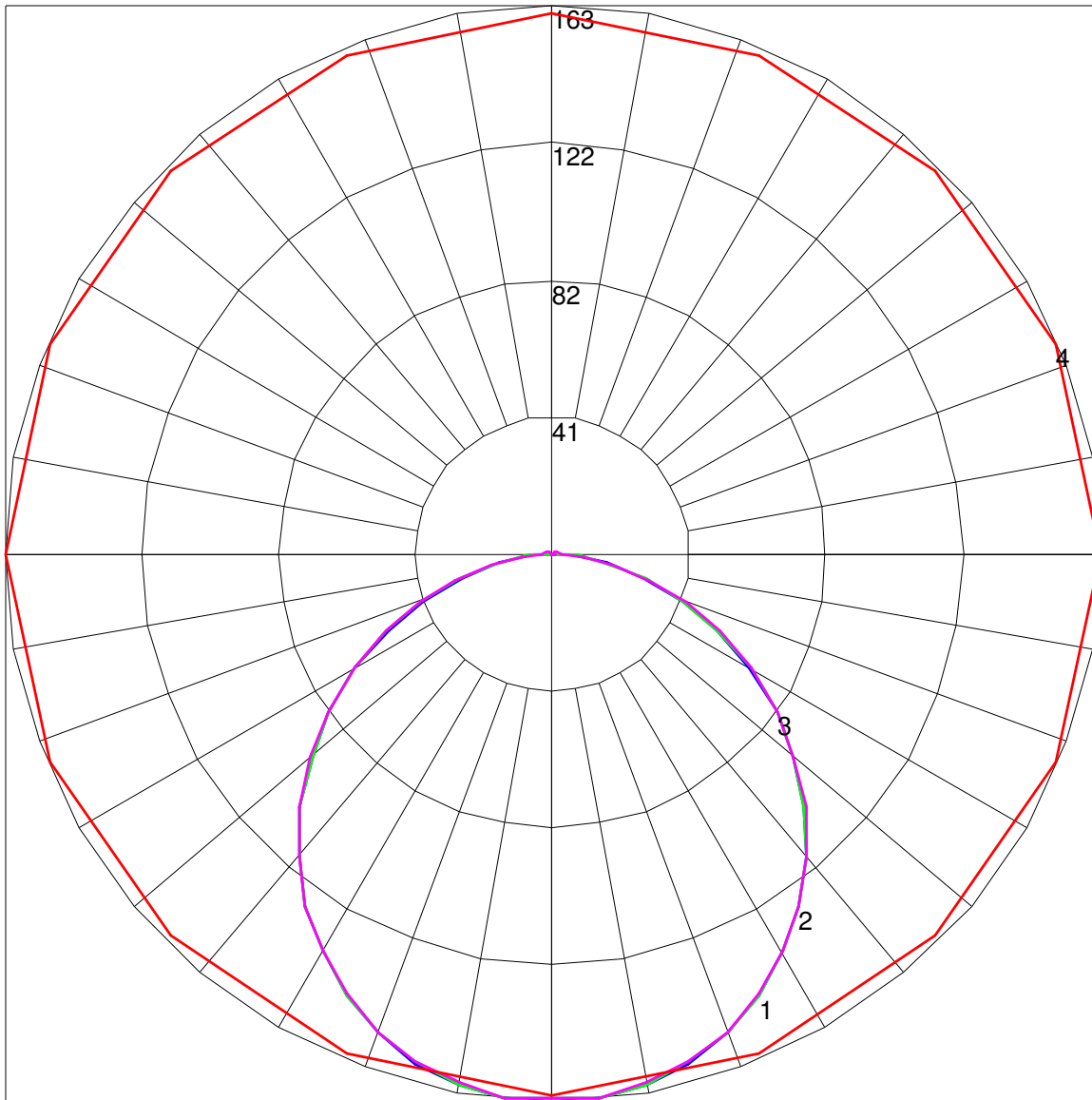
Reflectances

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	16.2	17.8	16.6	18.2	18.6	17.9	19.4	18.3	19.8	20.3
	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	21.3	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	23.9	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	24.8	25.6	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	25.2	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 = 163.306 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.)