



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-935-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
[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-L5-935-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	10252	8305	7951
55	9630	7416	7172
65	8504	6357	6382
75	7002	5211	5680
85	3532	4289	5115

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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	264.147	264.147	264.147	264.147	264.147
5	265.011	263.714	261.985	261.553	261.985
10	261.120	259.823	258.094	258.094	258.959
15	255.500	254.203	252.474	252.906	252.906
20	246.854	245.557	243.395	245.125	245.557
25	236.046	234.749	234.317	235.614	236.478
30	222.644	222.644	222.644	224.373	223.941
35	208.377	208.377	208.377	210.107	211.404
40	191.085	191.517	191.949	194.976	196.705
45	172.495	173.792	175.089	178.547	179.844
50	152.176	153.473	156.499	161.687	164.281
55	132.722	133.154	138.774	143.097	146.988
60	110.241	112.403	120.185	128.399	130.992
65	87.761	91.219	100.298	109.377	113.267
70	67.009	70.468	81.708	92.948	96.407
75	45.826	51.878	64.415	76.953	82.140
80	26.804	33.289	50.149	62.686	68.306
85	9.079	21.184	36.747	49.284	54.904
90	0.000	11.673	27.236	38.476	42.800
95	0.000	6.052	18.590	29.830	33.721
100	0.000	3.026	12.970	22.048	25.939
105	0.000	1.729	9.079	15.996	19.454
110	0.000	1.297	6.052	11.673	13.834
115	0.000	0.865	3.891	8.214	10.376
120	0.000	0.000	2.162	5.188	6.485
125	0.000	0.000	1.729	3.459	4.323
130	0.000	0.000	0.000	2.162	2.594
135	0.000	0.000	0.000	0.000	1.729
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	96.44	N.A.	11.50
0-30	204.84	N.A.	24.40
0-40	335.63	N.A.	40.00
0-60	595.61	N.A.	71.00
0-80	763.71	N.A.	91.00
0-90	802.61	N.A.	95.70
10-90	777.65	N.A.	92.70
20-40	239.19	N.A.	28.50
20-50	374.87	N.A.	44.70
40-70	359.74	N.A.	42.90
60-80	168.09	N.A.	20.00
70-80	68.33	N.A.	8.10
80-90	38.90	N.A.	4.60
90-110	29.89	N.A.	3.60
90-120	34.43	N.A.	4.10
90-130	36.06	N.A.	4.30
90-150	36.32	N.A.	4.30
90-180	36.32	N.A.	4.30
110-180	6.42	N.A.	0.80
0-180	838.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.96
10-20	71.48
20-30	108.40
30-40	130.79
40-50	135.68
50-60	124.30
60-70	99.76
70-80	68.33
80-90	38.90
90-100	19.96
100-110	9.94
110-120	4.54
120-130	1.62
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	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

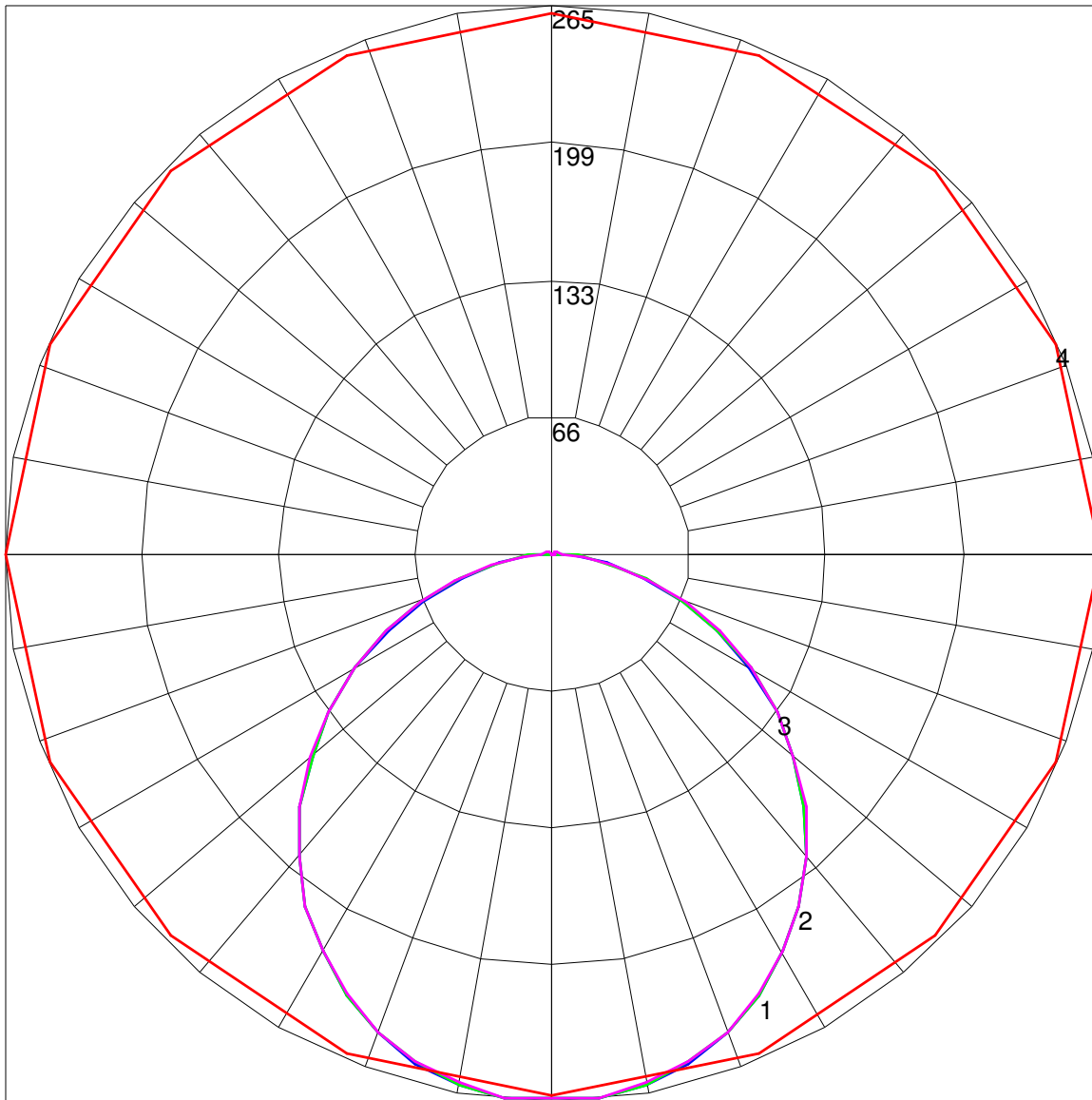
Reflectances

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	17.9	19.5	18.3	19.9	20.3	19.6	21.1	20.0	21.5	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.8	23.3	22.3	23.7	24.1
	4H	19.8	21.2	20.3	21.6	22.1	22.9	24.3	23.4	24.7	25.2
	6H	20.1	21.4	20.6	21.8	22.3	24.1	25.3	24.5	25.8	26.3
	8H	20.2	21.4	20.7	21.9	22.4	24.6	25.9	25.1	26.3	26.8
	12H	20.2	21.4	20.7	21.8	22.4	25.3	26.4	25.8	26.9	27.4
4H	2H	18.7	20.0	19.1	20.5	20.9	20.0	21.3	20.4	21.8	22.2
	3H	20.3	21.5	20.8	22.0	22.5	22.5	23.6	23.0	24.1	24.6
	4H	20.9	22.0	21.4	22.5	23.0	23.7	24.8	24.2	25.3	25.8
	6H	21.3	22.3	21.8	22.8	23.3	25.0	26.0	25.6	26.5	27.0
	8H	21.4	22.3	21.9	22.8	23.4	25.7	26.6	26.2	27.1	27.7
	12H	21.5	22.3	22.0	22.8	23.4	26.5	27.3	27.0	27.8	28.4
8H	4H	21.5	22.4	22.0	22.9	23.4	23.9	24.8	24.4	25.3	25.9
	6H	22.0	22.7	22.5	23.3	23.9	25.4	26.1	25.9	26.7	27.2
	8H	22.2	22.8	22.7	23.4	24.0	26.2	26.9	26.7	27.4	28.0
	12H	22.3	22.9	22.8	23.4	24.1	27.1	27.7	27.6	28.2	28.9
12H	4H	21.6	22.4	22.2	23.0	23.5	23.9	24.7	24.5	25.3	25.8
	6H	22.2	22.9	22.8	23.4	24.1	25.4	26.1	26.0	26.6	27.2
	8H	22.5	23.1	23.0	23.6	24.3	26.3	26.9	26.8	27.4	28.1

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 265.011 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.)