



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-927-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-L5-927-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	9882	8005	7664
55	9282	7148	6913
65	8197	6128	6152
75	6749	5023	5475
85	3405	4134	4930

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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	254.599	254.599	254.599	254.599	254.599
5	255.432	254.182	252.516	252.099	252.516
10	251.682	250.432	248.765	248.765	249.599
15	246.265	245.015	243.348	243.765	243.765
20	237.931	236.681	234.598	236.265	236.681
25	227.514	226.264	225.847	227.097	227.931
30	214.597	214.597	214.597	216.263	215.847
35	200.846	200.846	200.846	202.513	203.763
40	184.178	184.595	185.011	187.928	189.595
45	166.260	167.510	168.760	172.094	173.344
50	146.676	147.926	150.843	155.843	158.343
55	127.925	128.341	133.758	137.925	141.675
60	106.257	108.340	115.840	123.758	126.258
65	84.589	87.922	96.673	105.423	109.173
70	64.587	67.921	78.755	89.589	92.922
75	44.169	50.003	62.087	74.171	79.172
80	25.835	32.085	48.336	60.420	65.837
85	8.751	20.418	35.419	47.503	52.920
90	0.000	11.251	26.252	37.086	41.253
95	0.000	5.834	17.918	28.752	32.502
100	0.000	2.917	12.501	21.251	25.002
105	0.000	1.667	8.751	15.418	18.751
110	0.000	1.250	5.834	11.251	13.334
115	0.000	0.833	3.750	7.917	10.001
120	0.000	0.000	2.083	5.000	6.250
125	0.000	0.000	1.667	3.334	4.167
130	0.000	0.000	0.000	2.083	2.500
135	0.000	0.000	0.000	0.000	1.667
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	92.96	N.A.	11.50
0-30	197.44	N.A.	24.40
0-40	323.50	N.A.	40.00
0-60	574.09	N.A.	71.00
0-80	736.10	N.A.	91.00
0-90	773.60	N.A.	95.70
10-90	749.54	N.A.	92.70
20-40	230.54	N.A.	28.50
20-50	361.32	N.A.	44.70
40-70	346.74	N.A.	42.90
60-80	162.02	N.A.	20.00
70-80	65.86	N.A.	8.10
80-90	37.50	N.A.	4.60
90-110	28.81	N.A.	3.60
90-120	33.19	N.A.	4.10
90-130	34.75	N.A.	4.30
90-150	35.00	N.A.	4.30
90-180	35.00	N.A.	4.30
110-180	6.19	N.A.	0.80
0-180	808.60	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.06
10-20	68.90
20-30	104.48
30-40	126.07
40-50	130.78
50-60	119.80
60-70	96.16
70-80	65.86
80-90	37.50
90-100	19.23
100-110	9.58
110-120	4.37
120-130	1.57
130-140	0.25
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	27	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

X=2H	Y=2H	17.8	19.4	18.2	19.8	20.2	19.4	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

UGR Viewed Endwise

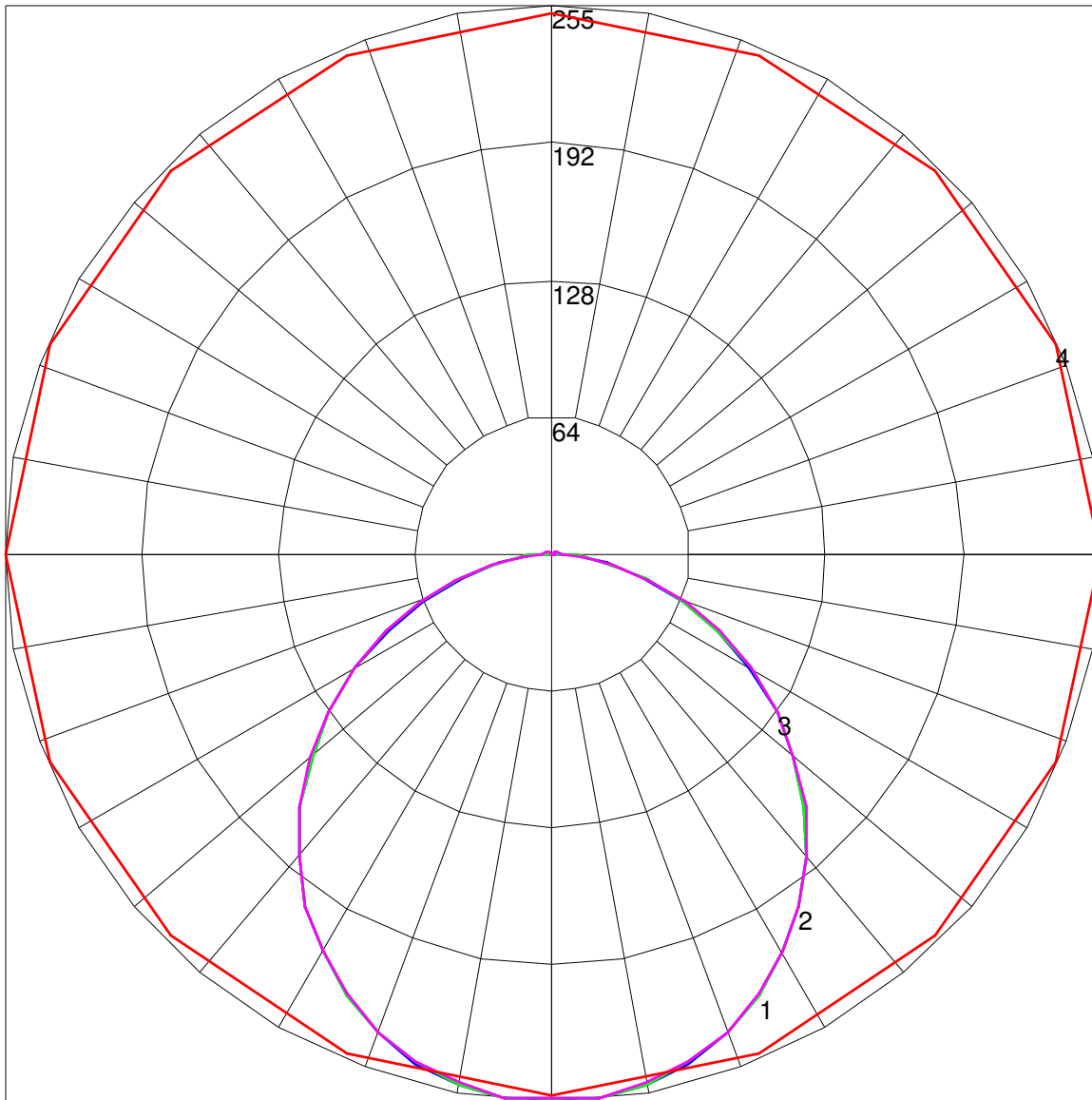
4H	2H	18.6	19.9	19.0	20.4	20.8	19.9	21.2	20.3	21.7	22.1
	3H	20.2	21.4	20.7	21.9	22.4	22.4	23.5	22.8	24.0	24.5
	4H	20.8	21.9	21.3	22.4	22.9	23.6	24.7	24.1	25.2	25.7
	6H	21.2	22.2	21.7	22.7	23.2	24.9	25.9	25.4	26.4	26.9
	8H	21.3	22.2	21.8	22.7	23.3	25.6	26.5	26.1	27.0	27.6
	12H	21.4	22.2	21.9	22.7	23.3	26.3	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 = 255.432 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.)