



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L10-927-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] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE

[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-6-L10-927-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4844
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	54.6
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)	6.00 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	20038	16123	15302
55	18944	14434	13803
65	16907	12419	12283
75	14241	10236	10932
85	7915	8509	9844

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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	1525.076	1525.076	1525.076	1525.076	1525.076
5	1530.068	1522.580	1512.596	1510.100	1512.596
10	1507.604	1500.116	1490.132	1490.132	1495.124
15	1475.155	1467.667	1457.683	1460.179	1460.179
20	1425.235	1417.747	1405.267	1415.251	1417.747
25	1362.834	1355.346	1352.850	1360.338	1365.330
30	1285.457	1285.457	1285.457	1295.441	1292.945
35	1203.088	1203.088	1203.088	1213.072	1220.560
40	1103.247	1105.743	1108.239	1125.711	1135.695
45	995.917	1003.405	1010.893	1030.862	1038.350
50	878.604	886.092	903.564	933.516	948.493
55	766.282	768.778	801.227	826.187	848.651
60	636.488	648.969	693.897	741.322	756.298
65	506.695	526.663	579.080	631.496	653.961
70	386.885	406.853	471.750	536.647	556.615
75	264.579	299.524	371.909	444.294	474.246
80	154.754	192.195	289.540	361.925	394.373
85	52.417	122.306	212.163	284.548	316.996
90	0.000	67.393	157.250	222.147	247.107
95	0.000	34.944	107.329	172.226	194.691
100	0.000	17.472	74.881	127.298	149.762
105	0.000	9.984	52.417	92.353	112.321
110	0.000	7.488	34.944	67.393	79.873
115	0.000	4.992	22.464	47.425	59.905
120	0.000	0.000	12.480	29.952	37.440
125	0.000	0.000	9.984	19.968	24.960
130	0.000	0.000	0.000	12.480	14.976
135	0.000	0.000	0.000	0.000	9.984
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	556.83	N.A.	11.50
0-30	1182.66	N.A.	24.40
0-40	1937.82	N.A.	40.00
0-60	3438.84	N.A.	71.00
0-80	4409.34	N.A.	91.00
0-90	4633.95	N.A.	95.70
10-90	4489.84	N.A.	92.70
20-40	1380.98	N.A.	28.50
20-50	2164.36	N.A.	44.70
40-70	2077.02	N.A.	42.90
60-80	970.50	N.A.	20.00
70-80	394.50	N.A.	8.10
80-90	224.62	N.A.	4.60
90-110	172.60	N.A.	3.60
90-120	198.80	N.A.	4.10
90-130	208.18	N.A.	4.30
90-150	209.67	N.A.	4.30
90-180	209.67	N.A.	4.30
110-180	37.07	N.A.	0.80
0-180	4843.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	144.11
10-20	412.72
20-30	625.83
30-40	755.15
40-50	783.38
50-60	717.64
60-70	576.00
70-80	394.50
80-90	224.62
90-100	115.22
100-110	57.38
110-120	26.20
120-130	9.38
130-140	1.49
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

X=2H	Y=2H	20.2	21.8	20.6	22.2	22.6	21.9	23.5	22.3	23.9	24.3
	3H	21.7	23.1	22.1	23.5	24.0	24.2	25.7	24.6	26.1	26.5
	4H	22.1	23.5	22.6	23.9	24.4	25.3	26.7	25.8	27.1	27.6
	6H	22.4	23.7	22.9	24.1	24.6	26.5	27.8	27.0	28.2	28.7
	8H	22.5	23.7	23.0	24.2	24.7	27.1	28.3	27.6	28.8	29.3
	12H	22.5	23.7	23.0	24.1	24.7	27.8	28.9	28.2	29.4	29.9

UGR Viewed Endwise

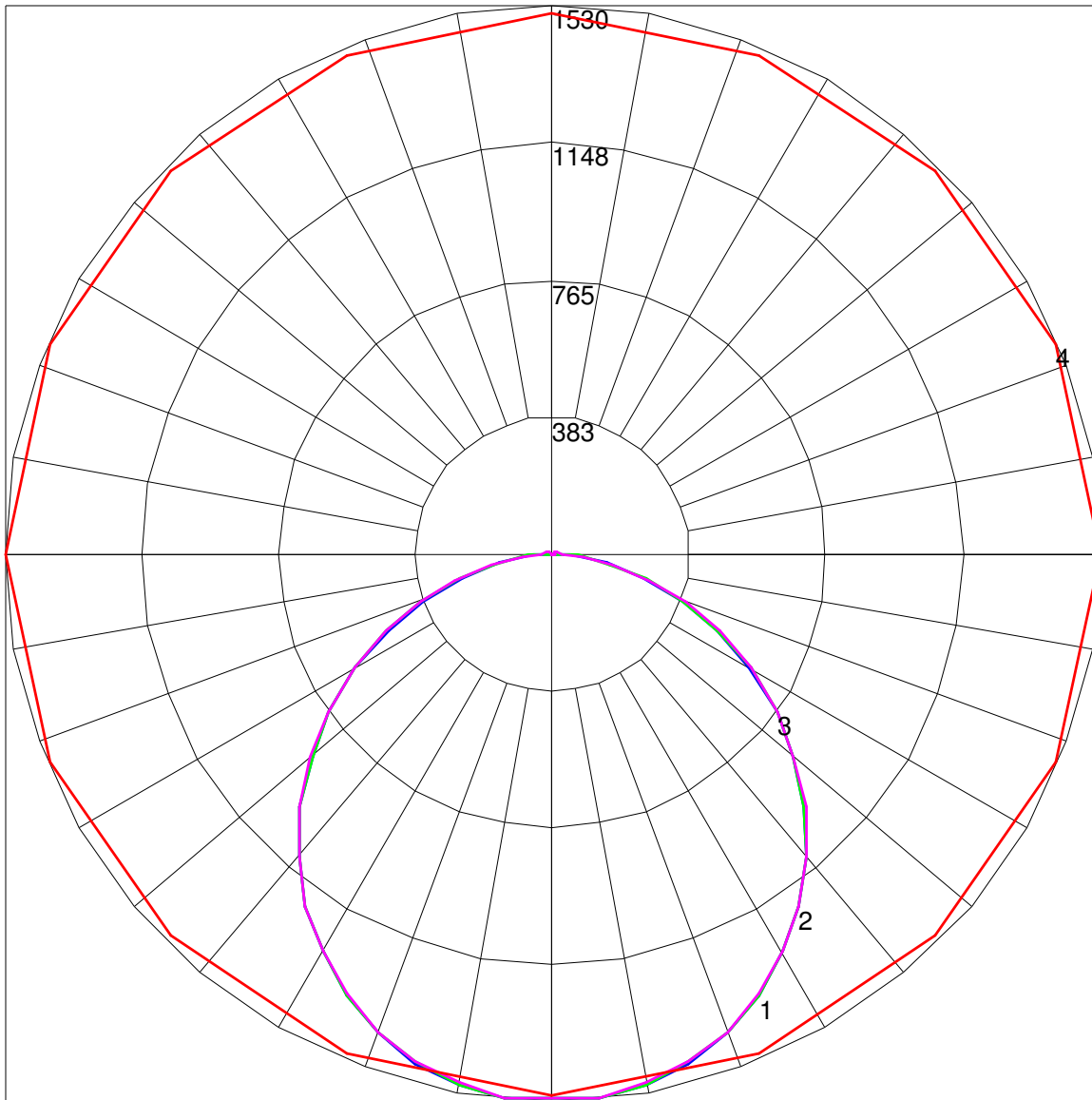
4H	2H	21.0	22.3	21.4	22.8	23.2	22.3	23.7	22.8	24.1	24.6
	3H	22.7	23.8	23.1	24.3	24.8	24.8	26.0	25.3	26.5	27.0
	4H	23.2	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.7	28.2
	6H	23.6	24.6	24.1	25.1	25.6	27.5	28.4	28.0	28.9	29.5
	8H	23.7	24.6	24.2	25.1	25.7	28.2	29.0	28.7	29.5	30.1
	12H	23.8	24.6	24.3	25.1	25.7	28.9	29.7	29.5	30.3	30.8

8H	4H	23.8	24.7	24.3	25.2	25.7	26.3	27.2	26.8	27.7	28.3
	6H	24.3	25.1	24.9	25.6	26.2	27.8	28.5	28.3	29.1	29.7
	8H	24.5	25.2	25.0	25.7	26.3	28.6	29.3	29.2	29.9	30.4
	12H	24.6	25.2	25.2	25.7	26.4	29.6	30.2	30.1	30.7	31.4

12H	4H	23.9	24.7	24.5	25.3	25.8	26.3	27.1	26.9	27.7	28.2
	6H	24.5	25.2	25.1	25.8	26.4	27.8	28.5	28.4	29.0	29.7
	8H	24.8	25.4	25.4	25.9	26.6	28.7	29.3	29.3	29.9	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1530.068 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.)