



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L10-930-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

[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-L10-930-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	20539	16526	15684
55	19417	14795	14148
65	17330	12729	12590
75	14597	10492	11206
85	8113	8721	10090

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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	1563.203	1563.203	1563.203	1563.203	1563.203
5	1568.320	1560.645	1550.411	1547.853	1550.411
10	1545.294	1537.619	1527.385	1527.385	1532.502
15	1512.034	1504.359	1494.125	1496.684	1496.684
20	1460.866	1453.191	1440.398	1450.632	1453.191
25	1396.905	1389.230	1386.671	1394.347	1399.463
30	1317.594	1317.594	1317.594	1327.827	1325.269
35	1233.165	1233.165	1233.165	1243.399	1251.074
40	1130.828	1133.386	1135.945	1153.854	1164.087
45	1020.815	1028.490	1036.166	1056.633	1064.309
50	900.569	908.244	926.153	956.854	972.205
55	785.439	787.998	821.257	846.842	869.868
60	652.401	665.193	711.245	759.855	775.206
65	519.362	539.830	593.557	647.284	670.310
70	396.557	417.025	483.544	550.063	570.531
75	271.194	307.012	381.207	455.401	486.102
80	158.623	196.999	296.778	370.973	404.233
85	53.727	125.363	217.467	291.661	324.921
90	0.000	69.078	161.181	227.701	253.285
95	0.000	35.818	110.013	176.532	199.558
100	0.000	17.909	76.753	130.480	153.506
105	0.000	10.234	53.727	94.662	115.130
110	0.000	7.675	35.818	69.078	81.870
115	0.000	5.117	23.026	48.610	61.402
120	0.000	0.000	12.792	30.701	38.377
125	0.000	0.000	10.234	20.467	25.584
130	0.000	0.000	0.000	12.792	15.351
135	0.000	0.000	0.000	0.000	10.234
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	570.75	N.A.	11.50
0-30	1212.23	N.A.	24.40
0-40	1986.26	N.A.	40.00
0-60	3524.81	N.A.	71.00
0-80	4519.57	N.A.	91.00
0-90	4749.8	N.A.	95.70
10-90	4602.09	N.A.	92.70
20-40	1415.51	N.A.	28.50
20-50	2218.47	N.A.	44.70
40-70	2128.94	N.A.	42.90
60-80	994.76	N.A.	20.00
70-80	404.37	N.A.	8.10
80-90	230.23	N.A.	4.60
90-110	176.91	N.A.	3.60
90-120	203.77	N.A.	4.10
90-130	213.38	N.A.	4.30
90-150	214.91	N.A.	4.30
90-180	214.91	N.A.	4.30
110-180	38.00	N.A.	0.80
0-180	4964.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.72
10-20	423.04
20-30	641.48
30-40	774.03
40-50	802.96
50-60	735.58
60-70	590.40
70-80	404.37
80-90	230.23
90-100	118.10
100-110	58.81
110-120	26.86
120-130	9.61
130-140	1.53
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	20.3	21.9	20.7	22.3	22.7	22.0	23.6	22.4	24.0	24.4
	3H	21.8	23.2	22.2	23.6	24.1	24.3	25.8	24.7	26.2	26.6
	4H	22.2	23.6	22.7	24.0	24.5	25.4	26.8	25.9	27.2	27.7
	6H	22.5	23.8	23.0	24.2	24.7	26.6	27.9	27.1	28.3	28.8
	8H	22.6	23.8	23.1	24.3	24.8	27.2	28.4	27.7	28.9	29.4
	12H	22.6	23.8	23.1	24.2	24.8	27.9	29.0	28.3	29.5	30.0

UGR Viewed Endwise

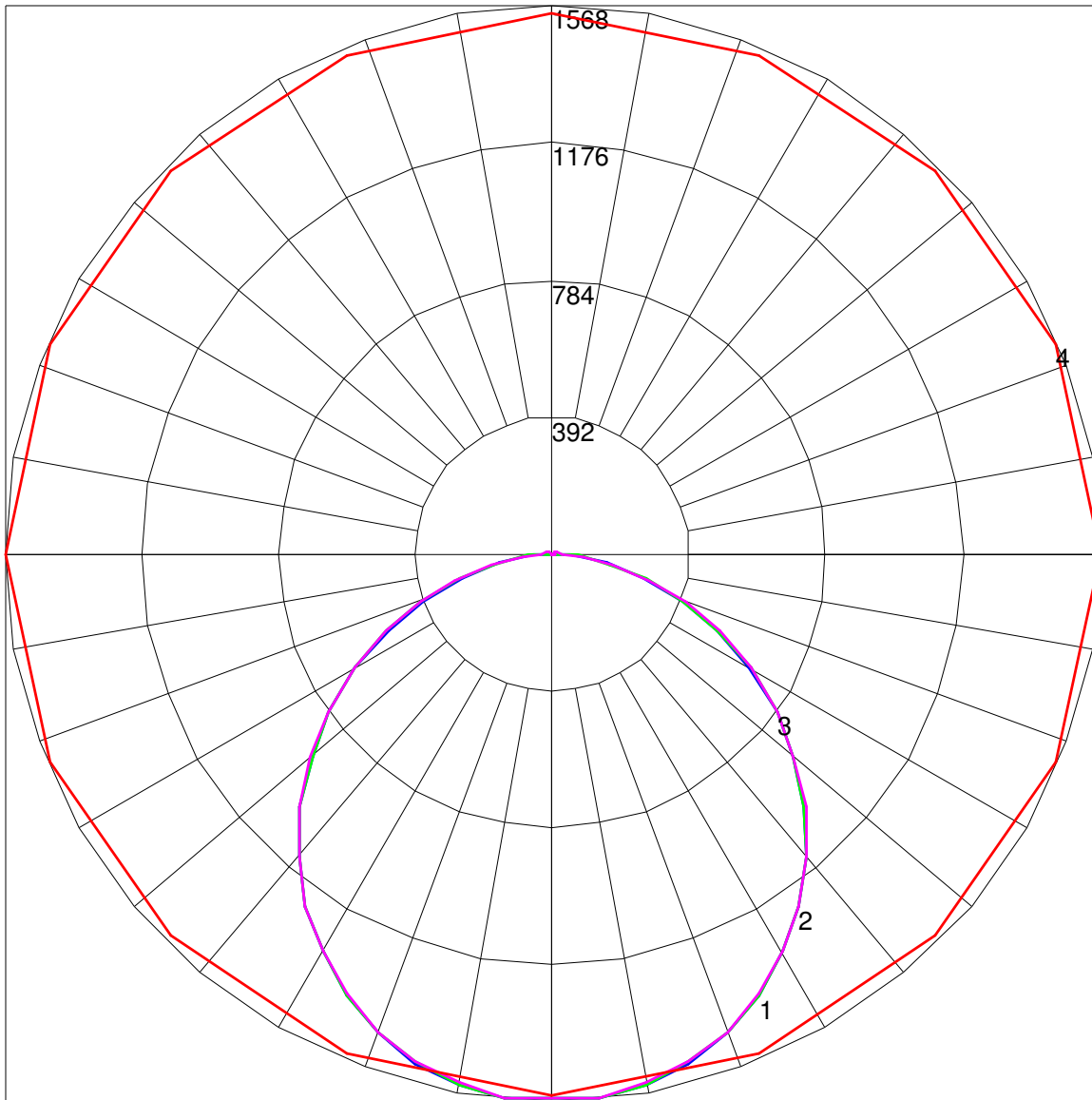
4H	2H	21.1	22.4	21.5	22.9	23.3	22.4	23.8	22.9	24.2	24.7
	3H	22.8	23.9	23.2	24.4	24.9	24.9	26.1	25.4	26.6	27.1
	4H	23.3	24.4	23.8	24.9	25.4	26.2	27.3	26.7	27.8	28.3
	6H	23.7	24.7	24.2	25.2	25.7	27.6	28.5	28.1	29.0	29.6
	8H	23.8	24.7	24.3	25.2	25.8	28.3	29.1	28.8	29.6	30.2
	12H	23.9	24.7	24.4	25.2	25.8	29.0	29.8	29.6	30.4	30.9

8H	4H	23.9	24.8	24.4	25.3	25.8	26.4	27.3	26.9	27.8	28.4
	6H	24.4	25.2	25.0	25.7	26.3	27.9	28.6	28.4	29.2	29.8
	8H	24.6	25.3	25.1	25.8	26.4	28.7	29.4	29.3	30.0	30.5
	12H	24.7	25.3	25.3	25.8	26.5	29.7	30.3	30.2	30.8	31.5

12H	4H	24.0	24.8	24.6	25.4	25.9	26.4	27.2	27.0	27.8	28.3
	6H	24.6	25.3	25.2	25.9	26.5	27.9	28.6	28.5	29.1	29.8
	8H	24.9	25.5	25.5	26.0	26.7	28.8	29.4	29.4	30.0	30.6

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 1568.32 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.)