



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L10-935-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] 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-L10-935-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	20789	16727	15876
55	19654	14976	14321
65	17541	12884	12744
75	14775	10619	11342
85	8211	8828	10213

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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	1582.266	1582.266	1582.266	1582.266	1582.266
5	1587.446	1579.677	1569.318	1566.729	1569.318
10	1564.139	1556.370	1546.011	1546.011	1551.191
15	1530.474	1522.705	1512.346	1514.936	1514.936
20	1478.681	1470.912	1457.964	1468.322	1470.912
25	1413.940	1406.171	1403.582	1411.350	1416.530
30	1333.661	1333.661	1333.661	1344.020	1341.430
35	1248.204	1248.204	1248.204	1258.562	1266.331
40	1144.618	1147.208	1149.797	1167.925	1178.283
45	1033.264	1041.033	1048.802	1069.519	1077.288
50	911.551	919.320	937.447	968.523	984.061
55	795.018	797.607	831.272	857.169	880.476
60	660.357	673.305	719.918	769.121	784.659
65	525.696	546.413	600.795	655.177	678.484
70	401.393	422.110	489.441	556.771	577.488
75	274.501	310.756	385.855	460.955	492.030
80	160.557	199.402	300.398	375.497	409.162
85	54.382	126.892	220.119	295.218	328.884
90	0.000	69.920	163.147	230.477	256.374
95	0.000	36.255	111.354	178.685	201.991
100	0.000	18.127	77.689	132.071	155.378
105	0.000	10.359	54.382	95.816	116.534
110	0.000	7.769	36.255	69.920	82.868
115	0.000	5.179	23.307	49.203	62.151
120	0.000	0.000	12.948	31.076	38.845
125	0.000	0.000	10.359	20.717	25.896
130	0.000	0.000	0.000	12.948	15.538
135	0.000	0.000	0.000	0.000	10.359
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	577.71	N.A.	11.50
0-30	1227.01	N.A.	24.40
0-40	2010.48	N.A.	40.00
0-60	3567.79	N.A.	71.00
0-80	4574.69	N.A.	91.00
0-90	4807.73	N.A.	95.70
10-90	4658.21	N.A.	92.70
20-40	1432.77	N.A.	28.50
20-50	2245.53	N.A.	44.70
40-70	2154.91	N.A.	42.90
60-80	1006.89	N.A.	20.00
70-80	409.30	N.A.	8.10
80-90	233.04	N.A.	4.60
90-110	179.07	N.A.	3.60
90-120	206.26	N.A.	4.10
90-130	215.99	N.A.	4.30
90-150	217.53	N.A.	4.30
90-180	217.53	N.A.	4.30
110-180	38.46	N.A.	0.80
0-180	5025.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.52
10-20	428.19
20-30	649.30
30-40	783.47
40-50	812.76
50-60	744.55
60-70	597.60
70-80	409.30
80-90	233.04
90-100	119.54
100-110	59.53
110-120	27.19
120-130	9.73
130-140	1.55
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	59	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

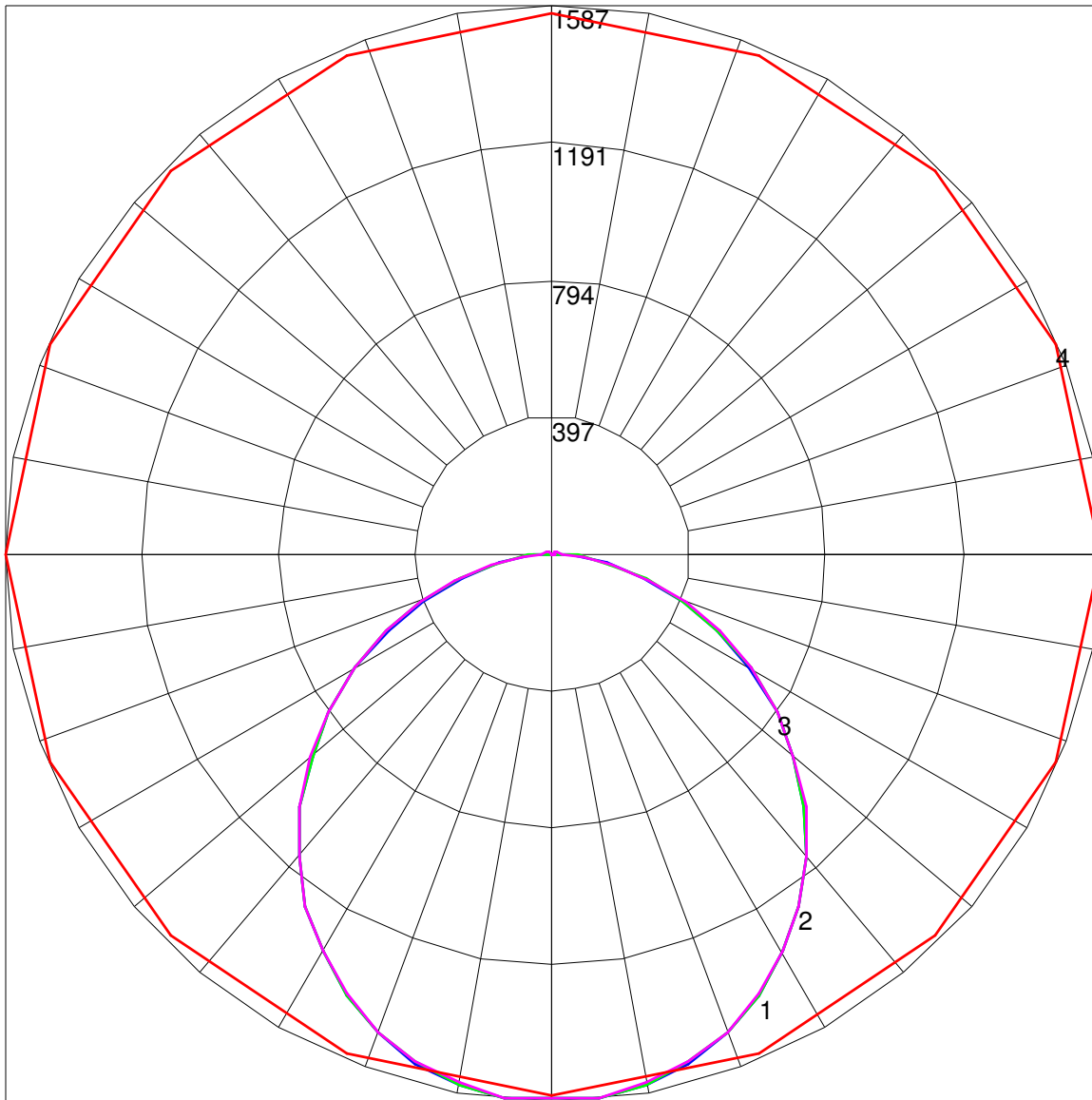
Reflectances

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	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
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	24.3	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	29.7	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 = 1587.446 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.)