



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L10-940-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-L10-940-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5207
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	21541	17332	16449
55	20365	15517	14838
65	18175	13350	13204
75	15309	11003	11752
85	8508	9147	10582

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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	1639.457	1639.457	1639.457	1639.457	1639.457
5	1644.823	1636.773	1626.040	1623.357	1626.040
10	1620.674	1612.624	1601.891	1601.891	1607.258
15	1585.792	1577.742	1567.009	1569.692	1569.692
20	1532.127	1524.077	1510.661	1521.394	1524.077
25	1465.046	1456.997	1454.313	1462.363	1467.730
30	1381.866	1381.866	1381.866	1392.599	1389.916
35	1293.319	1293.319	1293.319	1304.052	1312.102
40	1185.990	1188.673	1191.356	1210.139	1220.872
45	1070.611	1078.660	1086.710	1108.176	1116.226
50	944.499	952.548	971.331	1003.530	1019.629
55	823.753	826.436	861.318	888.151	912.300
60	684.225	697.641	745.939	796.921	813.020
65	544.697	566.163	622.511	678.858	703.008
70	415.901	437.367	507.131	576.896	598.361
75	284.423	321.988	399.802	477.616	509.815
80	166.361	206.609	311.255	389.069	423.951
85	56.348	131.479	228.075	305.889	340.771
90	0.000	72.447	169.044	238.808	265.640
95	0.000	37.565	115.379	185.143	209.292
100	0.000	18.783	80.497	136.845	160.994
105	0.000	10.733	56.348	99.280	120.746
110	0.000	8.050	37.565	72.447	85.864
115	0.000	5.366	24.149	50.981	64.398
120	0.000	0.000	13.416	32.199	40.249
125	0.000	0.000	10.733	21.466	26.832
130	0.000	0.000	0.000	13.416	16.099
135	0.000	0.000	0.000	0.000	10.733
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	598.59	N.A.	11.50
0-30	1271.36	N.A.	24.40
0-40	2083.15	N.A.	40.00
0-60	3696.75	N.A.	71.00
0-80	4740.04	N.A.	91.00
0-90	4981.5	N.A.	95.70
10-90	4826.58	N.A.	92.70
20-40	1484.56	N.A.	28.50
20-50	2326.69	N.A.	44.70
40-70	2232.79	N.A.	42.90
60-80	1043.29	N.A.	20.00
70-80	424.09	N.A.	8.10
80-90	241.46	N.A.	4.60
90-110	185.54	N.A.	3.60
90-120	213.71	N.A.	4.10
90-130	223.79	N.A.	4.30
90-150	225.40	N.A.	4.30
90-180	225.40	N.A.	4.30
110-180	39.85	N.A.	0.80
0-180	5206.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.92
10-20	443.67
20-30	672.77
30-40	811.79
40-50	842.13
50-60	771.46
60-70	619.20
70-80	424.09
80-90	241.46
90-100	123.86
100-110	61.68
110-120	28.17
120-130	10.08
130-140	1.60
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

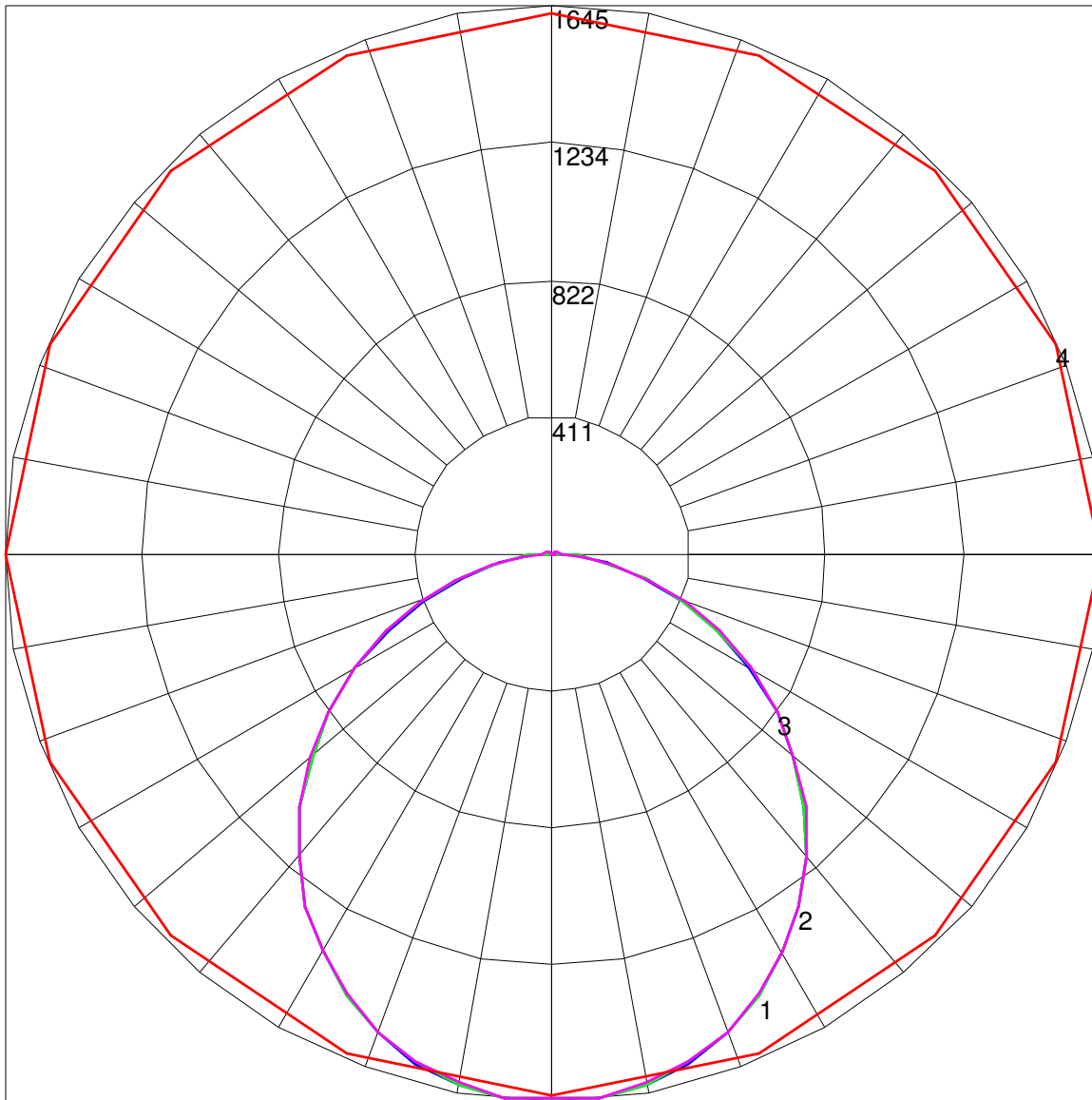
Reflectances

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	20.4	22.0	20.8	22.4	22.8	22.1	23.7	22.5	24.1	24.5
	3H	21.9	23.3	22.3	23.7	24.2	24.4	25.9	24.8	26.3	26.7
	4H	22.3	23.7	22.8	24.1	24.6	25.5	26.9	26.0	27.3	27.8
	6H	22.6	23.9	23.1	24.3	24.8	26.7	28.0	27.2	28.4	28.9
	8H	22.7	23.9	23.2	24.4	24.9	27.3	28.5	27.8	29.0	29.5
	12H	22.7	23.9	23.2	24.3	24.9	28.0	29.1	28.4	29.6	30.1
4H	2H	21.2	22.5	21.6	23.0	23.4	22.5	23.9	23.0	24.3	24.8
	3H	22.9	24.0	23.3	24.5	25.0	25.0	26.2	25.5	26.7	27.2
	4H	23.4	24.5	23.9	25.0	25.5	26.3	27.4	26.8	27.9	28.4
	6H	23.8	24.8	24.3	25.3	25.8	27.7	28.6	28.2	29.1	29.7
	8H	23.9	24.8	24.4	25.3	25.9	28.4	29.2	28.9	29.7	30.3
	12H	24.0	24.8	24.5	25.3	25.9	29.1	29.9	29.7	30.5	31.0
8H	4H	24.0	24.9	24.5	25.4	25.9	26.5	27.4	27.0	27.9	28.5
	6H	24.5	25.3	25.1	25.8	26.4	28.0	28.7	28.5	29.3	29.9
	8H	24.7	25.4	25.2	25.9	26.5	28.8	29.5	29.4	30.1	30.6
	12H	24.8	25.4	25.4	25.9	26.6	29.8	30.4	30.3	30.9	31.6
12H	4H	24.1	24.9	24.7	25.5	26.0	26.5	27.3	27.1	27.9	28.4
	6H	24.7	25.4	25.3	26.0	26.6	28.0	28.7	28.6	29.2	29.9
	8H	25.0	25.6	25.6	26.1	26.8	28.9	29.5	29.5	30.1	30.7

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 1644.823 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.)