IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L10-950-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BALLABS TEST NO. 21002.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-04-25
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] SL LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.375 WIDE ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[LUMCAT] SL-6-L10-950-RD-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, COVE, CLASSROOM
[_SEARCH_MOUNTING] SURFACE, WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	53.4
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)	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	21434	17246	16368
55	20264	15440	14765
65	18085	13284	13139
75	15234	10949	11694
85	8466	9102	10530

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1631.37	1631.37	1631.37	1631.37	1631.37
5	1636.71	1628.70	1618.02	1615.35	1618.02
10	1612.68	1604.67	1593.99	1593.99	1599.33
15	1577.97	1569.96	1559.28	1561.95	1561.95
20	1524.57	1516.56	1503.21	1513.89	1516.56
25	1457.82	1449.81	1447.14	1455.15	1460.49
30	1375.05	1375.05	1375.05	1385.73	1383.06
35	1286.94	1286.94	1286.94	1297.62	1305.63
40	1180.14	1182.81	1185.48	1204.17	1214.85
45	1065.33	1073.34	1081.35	1102.71	1110.72
50	939.84	947.85	966.54	998.58	1014.60
55	819.69	822.36	857.07	883.77	907.80
60	680.85	694.20	742.26	792.99	809.01
65	542.01	563.37	619.44	675.51	699.54
70	413.85	435.21	504.63	574.05	595.41
75	283.02	320.40	397.83	475.26	507.30
80	165.54	205.59	309.72	387.15	421.86
85	56.07	130.83	226.95	304.38	339.09
90	0.00	72.09	168.21	237.63	264.33
95	0.00	37.38	114.81	184.23	208.26
100	0.00	18.69	80.10	136.17	160.20
105	0.00	10.68	56.07	98.79	120.15
110	0.00	8.01	37.38	72.09	85.44
115	0.00	5.34	24.03	50.73	64.08
120	0.00	0.00	13.35	32.04	40.05
125	0.00	0.00	10.68	21.36	26.70
130	0.00	0.00	0.00	13.35	16.02
135	0.00	0.00	0.00	0.00	10.68
140	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	595.64	N.A.	11.50
0-30	1265.09	N.A.	24.40
0-40	2072.88	N.A.	40.00
0-60	3678.51	N.A.	71.00
0-80	4716.66	N.A.	91.00
0-90	4956.93	N.A.	95.70
10-90	4802.77	N.A.	92.70
20-40	1477.23	N.A.	28.50
20-50	2315.21	N.A.	44.70
40-70	2221.78	N.A.	42.90
60-80	1038.14	N.A.	20.00
70-80	422.00	N.A.	8.10
80-90	240.27	N.A.	4.60
90-110	184.63	N.A.	3.60
90-120	212.66	N.A.	4.10
90-130	222.69	N.A.	4.30
90-150	224.28	N.A.	4.30
90-180	224.28	N.A.	4.30
110-180	39.66	N.A.	0.80
0-180	5181.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.16
10-20	441.48
20-30	669.45
30-40	807.78
40-50	837.98
50-60	767.66
60-70	616.14
70-80	422.00
80-90	240.27
90-100	123.25
100-110	61.38
110-120	28.03
120-130	10.03
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	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	20.4	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	24.4	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	29.8	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

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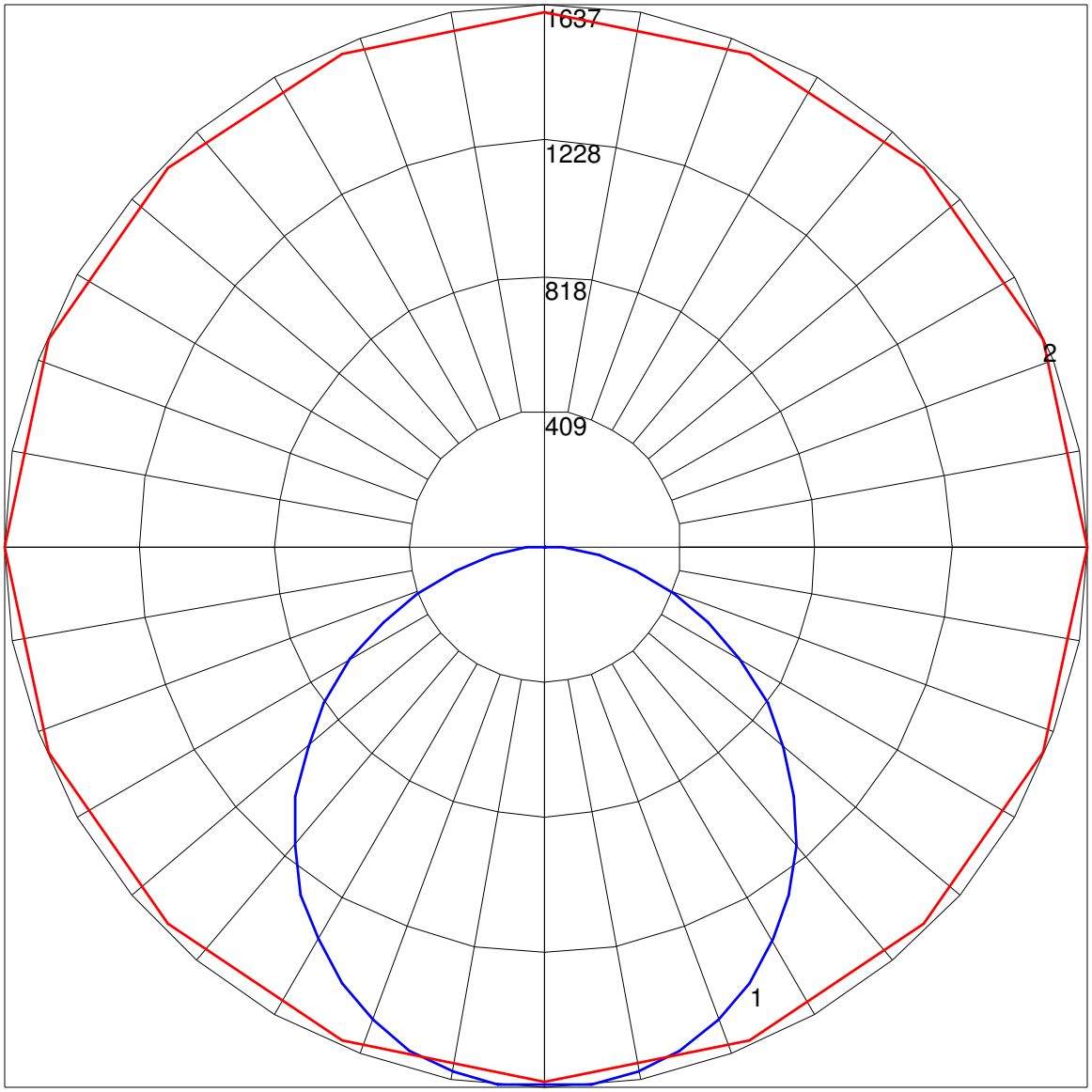
POLAR GRAPH



Maximum Candela = 1636.71 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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