IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-927-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-L5-927-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	2390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	26.5
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	9887	7955	7550
55	9347	7122	6810
65	8342	6127	6060
75	7027	5050	5394
85	3905	4198	4857

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	752.465	752.465	752.465	752.465	752.465
5	754.928	751.233	746.307	745.076	746.307
10	743.844	740.150	735.223	735.223	737.686
15	727.834	724.140	719.213	720.445	720.445
20	703.204	699.509	693.351	698.277	699.509
25	672.415	668.721	667.489	671.184	673.647
30	634.238	634.238	634.238	639.164	637.933
35	593.597	593.597	593.597	598.524	602.218
40	544.336	545.568	546.799	555.420	560.346
45	491.380	495.075	498.770	508.622	512.316
50	433.499	437.193	445.814	460.592	467.981
55	378.080	379.311	395.321	407.636	418.720
60	314.040	320.198	342.365	365.764	373.154
65	250.001	259.853	285.715	311.577	322.661
70	190.887	200.739	232.759	264.779	274.631
75	130.542	147.784	183.498	219.212	233.991
80	76.355	94.828	142.857	178.572	194.582
85	25.862	60.345	104.680	140.394	156.404
90	0.000	33.251	77.586	109.606	121.921
95	0.000	17.241	52.956	84.976	96.059
100	0.000	8.621	36.946	62.808	73.892
105	0.000	4.926	25.862	45.567	55.419
110	0.000	3.695	17.241	33.251	39.409
115	0.000	2.463	11.084	23.399	29.557
120	0.000	0.000	6.158	14.778	18.473
125	0.000	0.000	4.926	9.852	12.315
130	0.000	0.000	0.000	6.158	7.389
135	0.000	0.000	0.000	0.000	4.926
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	274.74	N.A.	11.50
0-30	583.52	N.A.	24.40
0-40	956.11	N.A.	40.00
0-60	1696.7	N.A.	71.00
0-80	2175.54	N.A.	91.00
0-90	2286.37	N.A.	95.70
10-90	2215.26	N.A.	92.70
20-40	681.37	N.A.	28.50
20-50	1067.89	N.A.	44.70
40-70	1024.79	N.A.	42.90
60-80	478.84	N.A.	20.00
70-80	194.65	N.A.	8.10
80-90	110.82	N.A.	4.60
90-110	85.16	N.A.	3.60
90-120	98.09	N.A.	4.10
90-130	102.71	N.A.	4.30
90-150	103.45	N.A.	4.30
90-180	103.45	N.A.	4.30
110-180	18.29	N.A.	0.80
0-180	2389.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.11
10-20	203.63
20-30	308.78
30-40	372.59
40-50	386.52
50-60	354.08
60-70	284.19
70-80	194.65
80-90	110.82
90-100	56.85
100-110	28.31
110-120	12.93
120-130	4.63
130-140	0.74
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	17.7	19.3	18.1	19.7	20.1	19.4	21.0	19.8	21.4	21.8
	3H	19.2	20.6	19.6	21.0	21.5	21.7	23.2	22.1	23.6	24.0
	4H	19.6	21.0	20.1	21.4	21.9	22.8	24.2	23.3	24.6	25.1
	6H	19.9	21.2	20.4	21.6	22.1	24.0	25.3	24.5	25.7	26.2
	8H	20.0	21.2	20.5	21.7	22.2	24.6	25.8	25.1	26.3	26.8
	12H	20.0	21.2	20.5	21.6	22.2	25.3	26.4	25.7	26.9	27.4
4H	2H	18.5	19.8	18.9	20.3	20.7	19.8	21.2	20.3	21.6	22.1
	3H	20.2	21.3	20.6	21.8	22.3	22.3	23.5	22.8	24.0	24.5
	4H	20.7	21.8	21.2	22.3	22.8	23.6	24.7	24.1	25.2	25.7
	6H	21.1	22.1	21.6	22.6	23.1	25.0	25.9	25.5	26.4	27.0
	8H	21.2	22.1	21.7	22.6	23.2	25.7	26.5	26.2	27.0	27.6
	12H	21.3	22.1	21.8	22.6	23.2	26.4	27.2	27.0	27.8	28.3
8H	4H	21.3	22.2	21.8	22.7	23.2	23.8	24.7	24.3	25.2	25.8
	6H	21.8	22.6	22.4	23.1	23.7	25.3	26.0	25.8	26.6	27.2
	8H	22.0	22.7	22.5	23.2	23.8	26.1	26.8	26.7	27.4	27.9
	12H	22.1	22.7	22.7	23.2	23.9	27.1	27.7	27.6	28.2	28.9
12H	4H	21.4	22.2	22.0	22.8	23.3	23.8	24.6	24.4	25.2	25.7
	6H	22.0	22.7	22.6	23.3	23.9	25.3	26.0	25.9	26.5	27.2
	8H	22.3	22.9	22.9	23.4	24.1	26.2	26.8	26.8	27.4	28.0

Maximum UGR = 28.9

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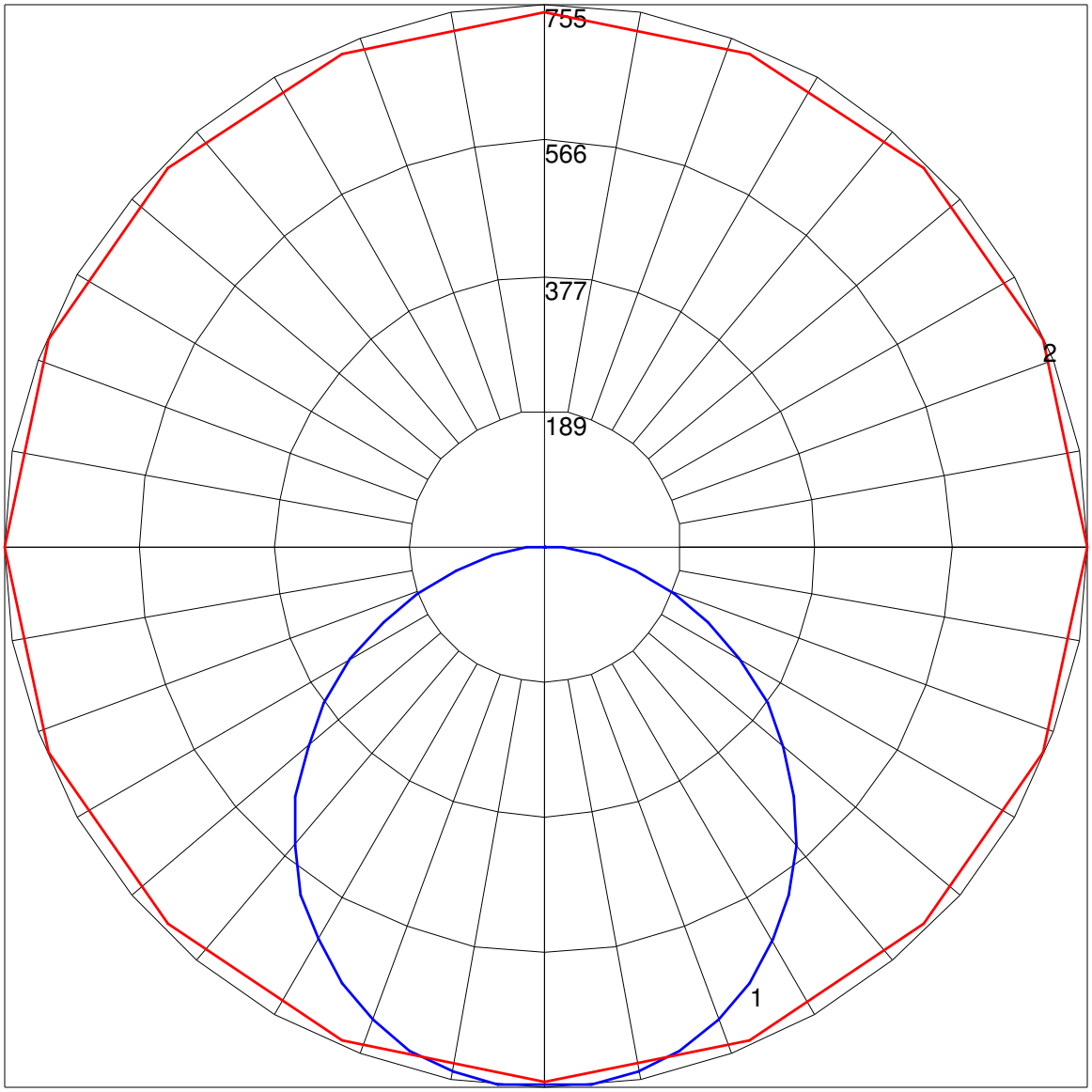
POLAR GRAPH



Maximum Candela = 754.928 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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