IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-950-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-2-L5-950-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	886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	9.4
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)	2.00 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	10830	8773	8399
55	10173	7834	7576
65	8983	6716	6742
75	7397	5505	6001
85	3731	4531	5403

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	279.039	279.039	279.039	279.039	279.039
5	279.952	278.582	276.756	276.299	276.756
10	275.842	274.472	272.645	272.645	273.559
15	269.905	268.535	266.708	267.165	267.165
20	260.771	259.401	257.118	258.945	259.401
25	249.354	247.984	247.527	248.897	249.811
30	235.197	235.197	235.197	237.023	236.567
35	220.126	220.126	220.126	221.953	223.323
40	201.858	202.315	202.771	205.968	207.795
45	182.220	183.590	184.960	188.614	189.984
50	160.756	162.126	165.323	170.803	173.543
55	140.205	140.661	146.598	151.165	155.275
60	116.457	118.740	126.960	135.638	138.378
65	92.709	96.362	105.953	115.543	119.653
70	70.787	74.441	86.315	98.189	101.842
75	48.409	54.803	68.047	81.291	86.772
80	28.315	35.165	52.976	66.220	72.157
85	9.591	22.378	38.819	52.063	58.000
90	0.000	12.331	28.772	40.646	45.213
95	0.000	6.394	19.638	31.512	35.622
100	0.000	3.197	13.701	23.291	27.402
105	0.000	1.827	9.591	16.898	20.551
110	0.000	1.370	6.394	12.331	14.614
115	0.000	0.913	4.110	8.677	10.961
120	0.000	0.000	2.283	5.480	6.850
125	0.000	0.000	1.827	3.654	4.567
130	0.000	0.000	0.000	2.283	2.740
135	0.000	0.000	0.000	0.000	1.827
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	101.88	N.A.	11.50
0-30	216.39	N.A.	24.40
0-40	354.56	N.A.	40.00
0-60	629.19	N.A.	71.00
0-80	806.76	N.A.	91.00
0-90	847.86	N.A.	95.70
10-90	821.49	N.A.	92.70
20-40	252.67	N.A.	28.50
20-50	396.01	N.A.	44.70
40-70	380.03	N.A.	42.90
60-80	177.57	N.A.	20.00
70-80	72.18	N.A.	8.10
80-90	41.10	N.A.	4.60
90-110	31.58	N.A.	3.60
90-120	36.37	N.A.	4.10
90-130	38.09	N.A.	4.30
90-150	38.36	N.A.	4.30
90-180	38.36	N.A.	4.30
110-180	6.78	N.A.	0.80
0-180	886.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.37
10-20	75.51
20-30	114.51
30-40	138.17
40-50	143.33
50-60	131.30
60-70	105.39
70-80	72.18
80-90	41.10
90-100	21.08
100-110	10.50
110-120	4.79
120-130	1.72
130-140	0.27
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	56	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	18.1	19.7	18.5	20.1	20.5	19.8	21.3	20.2	21.7	22.2
	3H	19.6	21.0	20.0	21.4	21.9	22.0	23.5	22.5	23.9	24.4
	4H	20.0	21.4	20.5	21.8	22.3	23.1	24.5	23.6	24.9	25.4
	6H	20.3	21.6	20.8	22.0	22.5	24.3	25.5	24.7	26.0	26.5
	8H	20.4	21.6	20.9	22.1	22.6	24.9	26.1	25.3	26.5	27.0
	12H	20.4	21.6	20.9	22.0	22.6	25.5	26.6	26.0	27.1	27.6
4H	2H	18.9	20.2	19.3	20.7	21.1	20.2	21.5	20.6	22.0	22.4
	3H	20.6	21.7	21.0	22.2	22.7	22.7	23.8	23.2	24.3	24.8
	4H	21.1	22.2	21.6	22.7	23.2	23.9	25.0	24.4	25.5	26.0
	6H	21.5	22.5	22.0	23.0	23.5	25.2	26.2	25.8	26.7	27.2
	8H	21.6	22.5	22.1	23.0	23.6	25.9	26.8	26.4	27.3	27.9
	12H	21.7	22.5	22.2	23.0	23.6	26.7	27.5	27.2	28.0	28.6
8H	4H	21.7	22.6	22.2	23.1	23.6	24.1	25.0	24.6	25.5	26.1
	6H	22.2	22.9	22.7	23.5	24.1	25.6	26.3	26.1	26.9	27.4
	8H	22.4	23.0	22.9	23.6	24.2	26.4	27.1	26.9	27.6	28.2
	12H	22.5	23.1	23.0	23.6	24.3	27.3	27.9	27.8	28.4	29.1
12H	4H	21.8	22.6	22.4	23.2	23.7	24.1	24.9	24.7	25.5	26.0
	6H	22.4	23.1	23.0	23.6	24.3	25.6	26.3	26.2	26.8	27.5
	8H	22.7	23.3	23.2	23.8	24.5	26.5	27.1	27.0	27.6	28.3

Maximum UGR = 29.1

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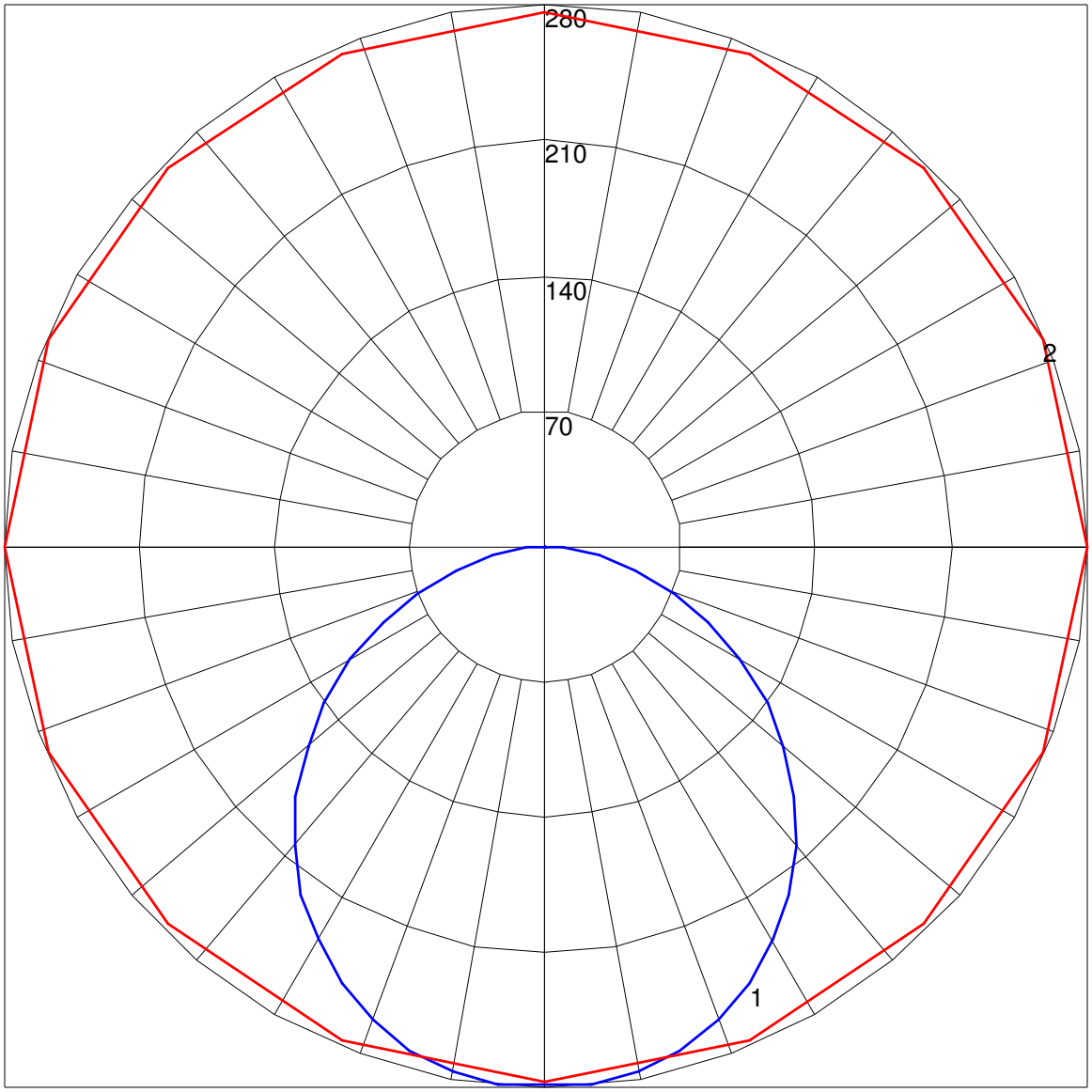
POLAR GRAPH



Maximum Candela = 279.952 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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