IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-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-6-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	2659
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	10999	8850	8399
55	10398	7923	7576
65	9280	6817	6742
75	7817	5618	6001
85	4344	4670	5403

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	837.117	837.117	837.117	837.117	837.117
5	839.857	835.747	830.267	828.897	830.267
10	827.527	823.416	817.936	817.936	820.676
15	809.716	805.605	800.125	801.495	801.495
20	782.314	778.204	771.353	776.834	778.204
25	748.062	743.952	742.582	746.692	749.432
30	705.590	705.590	705.590	711.070	709.700
35	660.377	660.377	660.377	665.857	669.968
40	605.574	606.944	608.314	617.905	623.385
45	546.661	550.771	554.881	565.842	569.952
50	482.267	486.377	495.968	512.409	520.629
55	420.614	421.984	439.795	453.495	465.826
60	349.370	356.220	380.881	406.913	415.133
65	278.126	289.086	317.858	346.629	358.960
70	212.362	223.323	258.945	294.567	305.527
75	145.228	164.409	204.141	243.874	260.315
80	84.945	105.496	158.929	198.661	216.472
85	28.772	67.134	116.457	156.189	174.000
90	0.000	36.992	86.315	121.937	135.638
95	0.000	19.181	58.913	94.535	106.866
100	0.000	9.591	41.102	69.874	82.205
105	0.000	5.480	28.772	50.693	61.653
110	0.000	4.110	19.181	36.992	43.842
115	0.000	2.740	12.331	26.031	32.882
120	0.000	0.000	6.850	16.441	20.551
125	0.000	0.000	5.480	10.961	13.701
130	0.000	0.000	0.000	6.850	8.220
135	0.000	0.000	0.000	0.000	5.480
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	305.65	N.A.	11.50
0-30	649.17	N.A.	24.40
0-40	1063.67	N.A.	40.00
0-60	1887.58	N.A.	71.00
0-80	2420.29	N.A.	91.00
0-90	2543.59	N.A.	95.70
10-90	2464.48	N.A.	92.70
20-40	758.02	N.A.	28.50
20-50	1188.02	N.A.	44.70
40-70	1140.08	N.A.	42.90
60-80	532.71	N.A.	20.00
70-80	216.54	N.A.	8.10
80-90	123.29	N.A.	4.60
90-110	94.74	N.A.	3.60
90-120	109.12	N.A.	4.10
90-130	114.27	N.A.	4.30
90-150	115.09	N.A.	4.30
90-180	115.09	N.A.	4.30
110-180	20.35	N.A.	0.80
0-180	2658.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.10
10-20	226.54
20-30	343.52
30-40	414.50
40-50	430.00
50-60	393.91
60-70	316.17
70-80	216.54
80-90	123.29
90-100	63.24
100-110	31.50
110-120	14.38
120-130	5.15
130-140	0.82
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	18.1	19.7	18.5	20.1	20.5	19.8	21.4	20.2	21.8	22.2
	3H	19.6	21.0	20.0	21.4	21.9	22.1	23.6	22.5	24.0	24.4
	4H	20.0	21.4	20.5	21.8	22.3	23.2	24.6	23.7	25.0	25.5
	6H	20.3	21.6	20.8	22.0	22.5	24.4	25.7	24.9	26.1	26.6
	8H	20.4	21.6	20.9	22.1	22.6	25.0	26.2	25.5	26.7	27.2
	12H	20.4	21.6	20.9	22.0	22.6	25.7	26.8	26.1	27.3	27.8
4H	2H	18.9	20.2	19.3	20.7	21.1	20.2	21.6	20.7	22.0	22.5
	3H	20.6	21.7	21.0	22.2	22.7	22.7	23.9	23.2	24.4	24.9
	4H	21.1	22.2	21.6	22.7	23.2	24.0	25.1	24.5	25.6	26.1
	6H	21.5	22.5	22.0	23.0	23.5	25.4	26.3	25.9	26.8	27.4
	8H	21.6	22.5	22.1	23.0	23.6	26.1	26.9	26.6	27.4	28.0
	12H	21.7	22.5	22.2	23.0	23.6	26.8	27.6	27.4	28.2	28.7
8H	4H	21.7	22.6	22.2	23.1	23.6	24.2	25.1	24.7	25.6	26.2
	6H	22.2	23.0	22.8	23.5	24.1	25.7	26.4	26.2	27.0	27.6
	8H	22.4	23.1	22.9	23.6	24.2	26.5	27.2	27.1	27.8	28.3
	12H	22.5	23.1	23.1	23.6	24.3	27.5	28.1	28.0	28.6	29.3
12H	4H	21.8	22.6	22.4	23.2	23.7	24.2	25.0	24.8	25.6	26.1
	6H	22.4	23.1	23.0	23.7	24.3	25.7	26.4	26.3	26.9	27.6
	8H	22.7	23.3	23.3	23.8	24.5	26.6	27.2	27.2	27.8	28.4

Maximum UGR = 29.3

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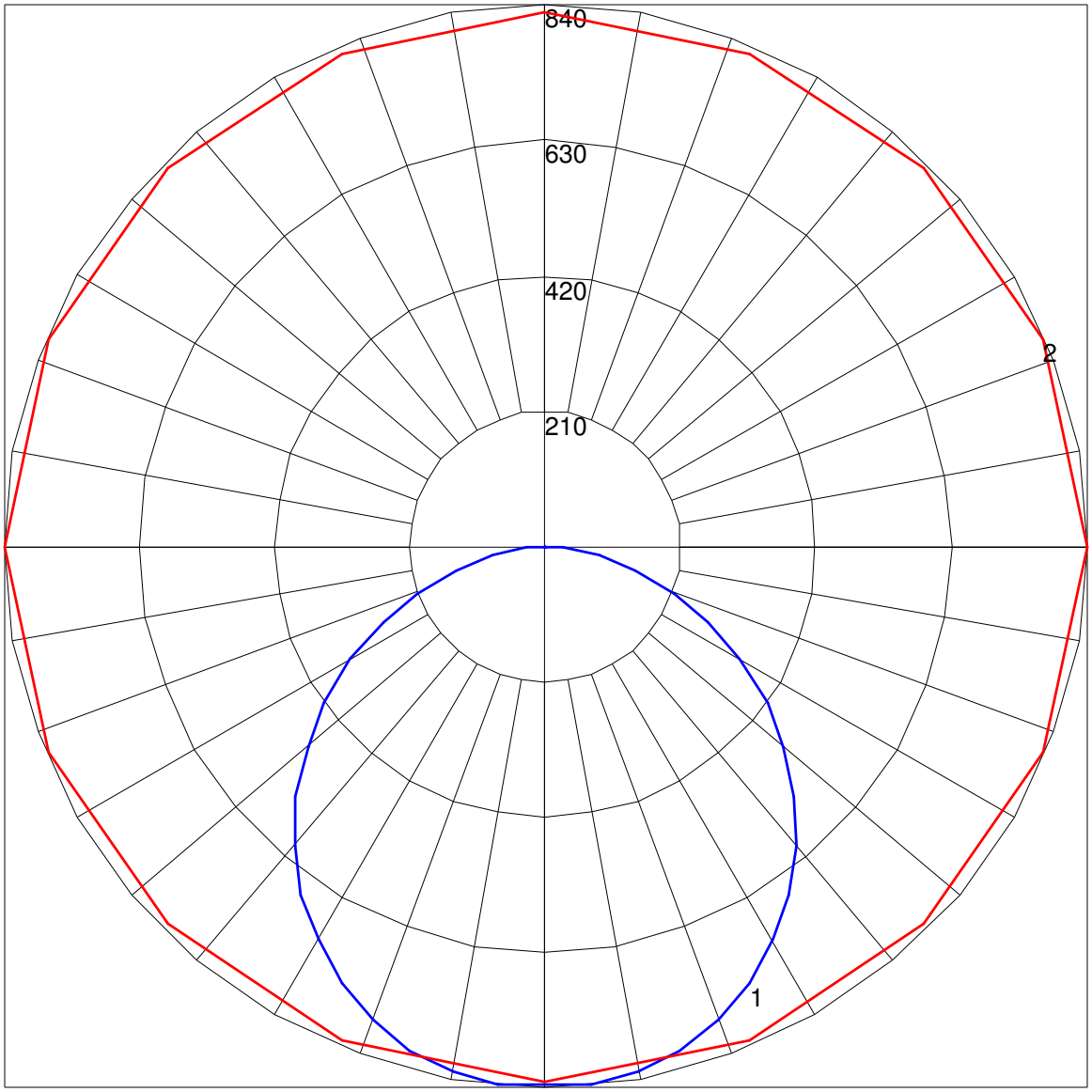
POLAR GRAPH



Maximum Candela = 839.857 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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