IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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-8-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	3186
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	35.2
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)	8.00 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	9906	7964	7550
55	9373	7132	6810
65	8376	6139	6060
75	7077	5063	5394
85	3987	4214	4857

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1003.286	1003.286	1003.286	1003.286	1003.286
5	1006.571	1001.644	995.076	993.434	995.076
10	991.792	986.866	980.298	980.298	983.582
15	970.446	965.520	958.951	960.593	960.593
20	937.605	932.679	924.469	931.037	932.679
25	896.554	891.628	889.986	894.912	898.196
30	845.651	845.651	845.651	852.219	850.577
35	791.463	791.463	791.463	798.031	802.958
40	725.782	727.424	729.066	740.560	747.128
45	655.174	660.100	665.026	678.163	683.089
50	577.998	582.924	594.418	614.123	623.975
55	504.106	505.748	527.095	543.515	558.294
60	418.720	426.930	456.487	487.686	497.538
65	333.334	346.470	380.953	415.436	430.214
70	254.516	267.653	310.346	353.039	366.175
75	174.056	197.045	244.664	292.283	311.988
80	101.806	126.437	190.477	238.096	259.442
85	34.483	80.460	139.573	187.193	208.539
90	0.000	44.335	103.449	146.142	162.562
95	0.000	22.989	70.608	113.301	128.079
100	0.000	11.494	49.261	83.744	98.522
105	0.000	6.568	34.483	60.755	73.892
110	0.000	4.926	22.989	44.335	52.545
115	0.000	3.284	14.778	31.199	39.409
120	0.000	0.000	8.210	19.704	24.631
125	0.000	0.000	6.568	13.136	16.420
130	0.000	0.000	0.000	8.210	9.852
135	0.000	0.000	0.000	0.000	6.568
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	366.32	N.A.	11.50
0-30	778.03	N.A.	24.40
0-40	1274.81	N.A.	40.00
0-60	2262.27	N.A.	71.00
0-80	2900.73	N.A.	91.00
0-90	3048.49	N.A.	95.70
10-90	2953.69	N.A.	92.70
20-40	908.49	N.A.	28.50
20-50	1423.85	N.A.	44.70
40-70	1366.39	N.A.	42.90
60-80	638.45	N.A.	20.00
70-80	259.53	N.A.	8.10
80-90	147.77	N.A.	4.60
90-110	113.54	N.A.	3.60
90-120	130.78	N.A.	4.10
90-130	136.95	N.A.	4.30
90-150	137.93	N.A.	4.30
90-180	137.93	N.A.	4.30
110-180	24.39	N.A.	0.80
0-180	3186.43	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.81
10-20	271.51
20-30	411.71
30-40	496.78
40-50	515.35
50-60	472.11
60-70	378.93
70-80	259.53
80-90	147.77
90-100	75.80
100-110	37.75
110-120	17.24
120-130	6.17
130-140	0.98
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	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	22.2	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	26.5	25.8	26.9	27.4
4H	2H	18.5	19.9	18.9	20.3	20.8	19.8	21.2	20.3	21.6	22.1
	3H	20.2	21.3	20.6	21.8	22.3	22.4	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	21.7	22.6	23.1	25.0	25.9	25.5	26.4	27.0
	8H	21.2	22.1	21.8	22.6	23.2	25.7	26.6	26.2	27.1	27.6
	12H	21.3	22.1	21.8	22.6	23.2	26.5	27.3	27.0	27.8	28.4
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	26.1	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	28.0
	12H	22.1	22.7	22.7	23.3	23.9	27.1	27.7	27.7	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	22.1	22.7	22.6	23.3	23.9	25.3	26.0	25.9	26.6	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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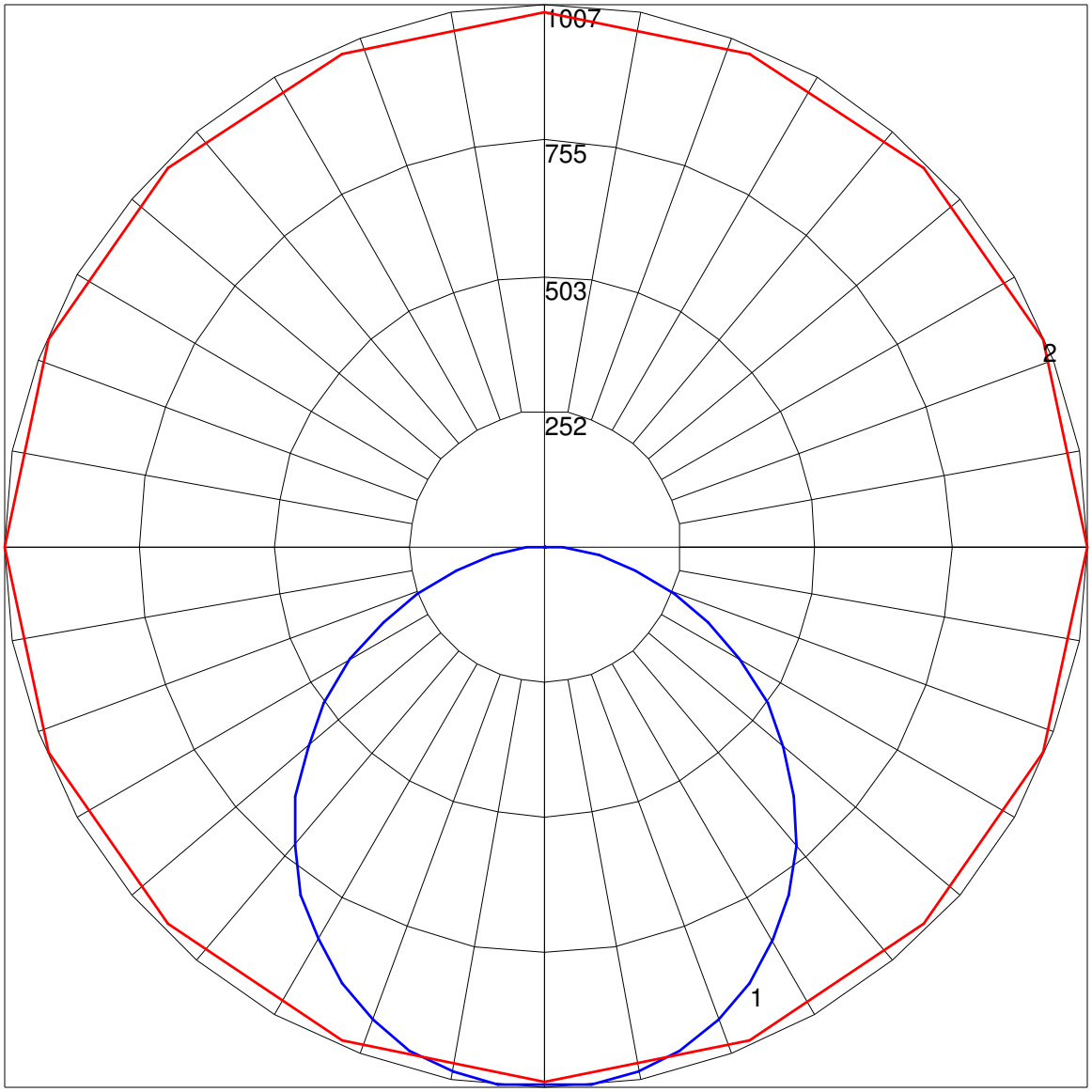
POLAR GRAPH



Maximum Candela = 1006.571 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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