IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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-8-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	3545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	11020	8859	8399
55	10427	7934	7576
65	9319	6829	6742
75	7873	5633	6001
85	4435	4688	5403

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1116.156	1116.156	1116.156	1116.156	1116.156
5	1119.810	1114.330	1107.023	1105.196	1107.023
10	1103.369	1097.889	1090.582	1090.582	1094.235
15	1079.621	1074.141	1066.834	1068.660	1068.660
20	1043.086	1037.605	1028.471	1035.779	1037.605
25	997.416	991.936	990.109	995.590	999.243
30	940.787	940.787	940.787	948.094	946.267
35	880.503	880.503	880.503	887.810	893.291
40	807.432	809.259	811.086	823.873	831.180
45	728.881	734.362	739.842	754.456	759.936
50	643.023	648.503	661.291	683.212	694.173
55	560.818	562.645	586.393	604.661	621.102
60	465.826	474.960	507.842	542.551	553.511
65	370.834	385.448	423.811	462.173	478.614
70	283.149	297.764	345.260	392.756	407.370
75	193.638	219.212	272.189	325.165	347.086
80	113.260	140.661	211.905	264.882	288.630
85	38.362	89.512	155.275	208.252	232.000
90	0.000	49.323	115.087	162.583	180.850
95	0.000	25.575	78.551	126.047	142.488
100	0.000	12.787	54.803	93.165	109.606
105	0.000	7.307	38.362	67.590	82.205
110	0.000	5.480	25.575	49.323	58.457
115	0.000	3.654	16.441	34.709	43.842
120	0.000	0.000	9.134	21.921	27.402
125	0.000	0.000	7.307	14.614	18.268
130	0.000	0.000	0.000	9.134	10.961
135	0.000	0.000	0.000	0.000	7.307
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	407.53	N.A.	11.50
0-30	865.56	N.A.	24.40
0-40	1418.23	N.A.	40.00
0-60	2516.78	N.A.	71.00
0-80	3227.06	N.A.	91.00
0-90	3391.45	N.A.	95.70
10-90	3285.98	N.A.	92.70
20-40	1010.7	N.A.	28.50
20-50	1584.03	N.A.	44.70
40-70	1520.11	N.A.	42.90
60-80	710.28	N.A.	20.00
70-80	288.72	N.A.	8.10
80-90	164.39	N.A.	4.60
90-110	126.32	N.A.	3.60
90-120	145.50	N.A.	4.10
90-130	152.36	N.A.	4.30
90-150	153.45	N.A.	4.30
90-180	153.45	N.A.	4.30
110-180	27.13	N.A.	0.80
0-180	3544.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.47
10-20	302.06
20-30	458.03
30-40	552.67
40-50	573.33
50-60	525.22
60-70	421.56
70-80	288.72
80-90	164.39
90-100	84.32
100-110	41.99
110-120	19.18
120-130	6.86
130-140	1.09
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	22.6	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	26.9	26.2	27.3	27.8
4H	2H	18.9	20.3	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	22.8	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	22.1	23.0	23.5	25.4	26.3	25.9	26.8	27.4
	8H	21.6	22.5	22.2	23.0	23.6	26.1	27.0	26.6	27.5	28.0
	12H	21.7	22.5	22.2	23.0	23.6	26.9	27.7	27.4	28.2	28.8
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	26.5	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	28.4
	12H	22.5	23.1	23.1	23.7	24.3	27.5	28.1	28.1	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	22.5	23.1	23.0	23.7	24.3	25.7	26.4	26.3	27.0	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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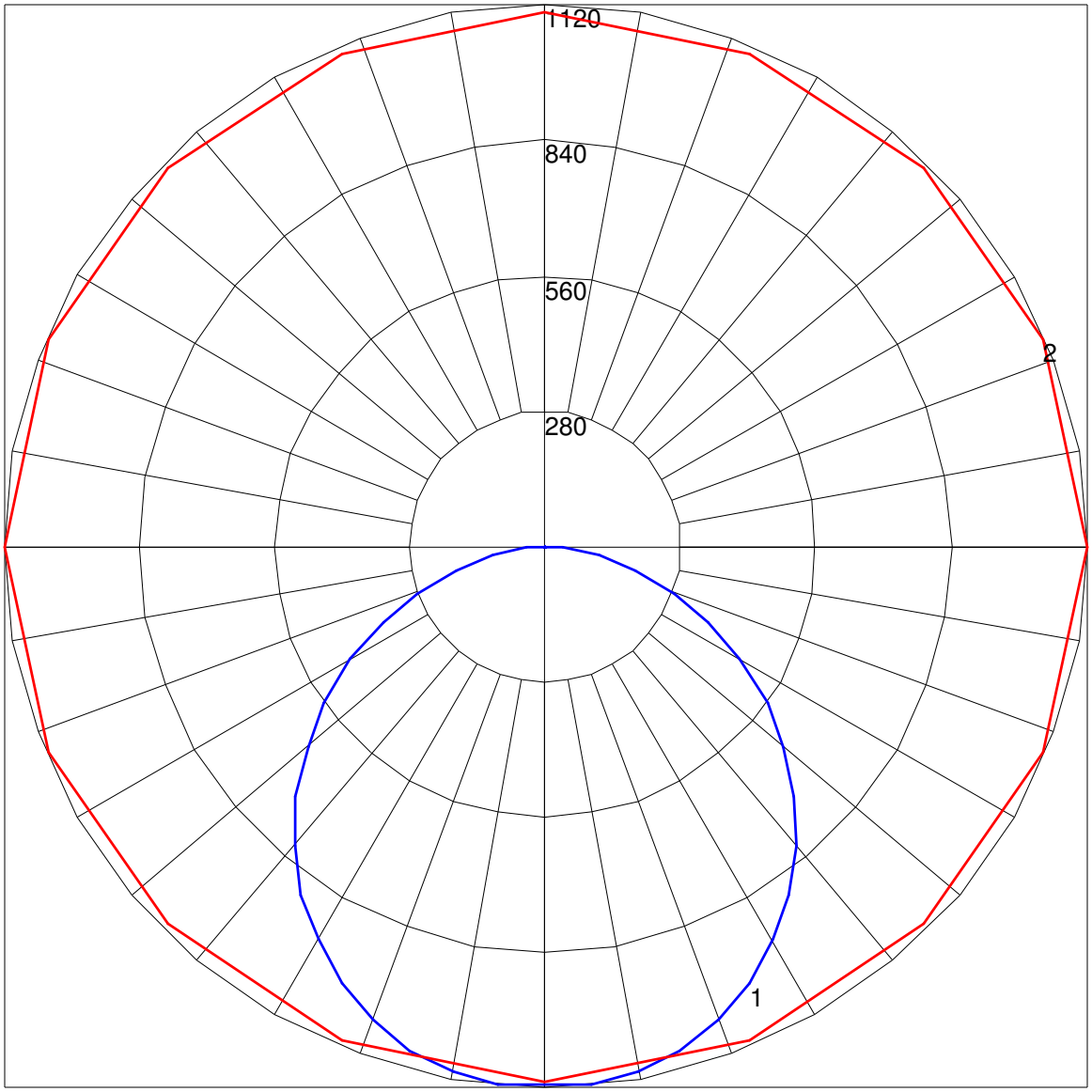
POLAR GRAPH



Maximum Candela = 1119.81 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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