IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-835-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-L5-835-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	3983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	12382	9954	9437
55	11716	8915	8513
65	10471	7674	7576
75	8846	6329	6742
85	4984	5268	6071

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1254.108	1254.108	1254.108	1254.108	1254.108
5	1258.213	1252.056	1243.845	1241.793	1243.845
10	1239.740	1233.583	1225.372	1225.372	1229.477
15	1213.057	1206.899	1198.689	1200.742	1200.742
20	1172.006	1165.848	1155.586	1163.796	1165.848
25	1120.692	1114.535	1112.482	1118.640	1122.745
30	1057.063	1057.063	1057.063	1065.273	1063.221
35	989.329	989.329	989.329	997.539	1003.697
40	907.227	909.280	911.332	925.700	933.910
45	818.967	825.125	831.283	847.703	853.861
50	722.498	728.655	743.023	767.654	779.969
55	630.133	632.185	658.869	679.394	697.867
60	523.400	533.663	570.609	609.607	621.923
65	416.668	433.088	476.192	519.295	537.768
70	318.145	334.566	387.932	441.298	457.719
75	217.570	246.306	305.830	365.354	389.985
80	127.258	158.046	238.096	297.620	324.303
85	43.104	100.575	174.467	233.991	260.674
90	0.000	55.419	129.311	182.677	203.202
95	0.000	28.736	88.260	141.626	160.099
100	0.000	14.368	61.577	104.680	123.153
105	0.000	8.210	43.104	75.944	92.365
110	0.000	6.158	28.736	55.419	65.682
115	0.000	4.105	18.473	38.998	49.261
120	0.000	0.000	10.263	24.631	30.788
125	0.000	0.000	8.210	16.420	20.526
130	0.000	0.000	0.000	10.263	12.315
135	0.000	0.000	0.000	0.000	8.210
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	457.90	N.A.	11.50
0-30	972.53	N.A.	24.40
0-40	1593.51	N.A.	40.00
0-60	2827.84	N.A.	71.00
0-80	3625.91	N.A.	91.00
0-90	3810.62	N.A.	95.70
10-90	3692.11	N.A.	92.70
20-40	1135.62	N.A.	28.50
20-50	1779.81	N.A.	44.70
40-70	1707.98	N.A.	42.90
60-80	798.07	N.A.	20.00
70-80	324.41	N.A.	8.10
80-90	184.71	N.A.	4.60
90-110	141.93	N.A.	3.60
90-120	163.48	N.A.	4.10
90-130	171.19	N.A.	4.30
90-150	172.42	N.A.	4.30
90-180	172.42	N.A.	4.30
110-180	30.49	N.A.	0.80
0-180	3983.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.51
10-20	339.39
20-30	514.64
30-40	620.98
40-50	644.19
50-60	590.13
60-70	473.66
70-80	324.41
80-90	184.71
90-100	94.75
100-110	47.18
110-120	21.55
120-130	7.71
130-140	1.23
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	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	24.0	23.0	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.4	22.9	24.8	26.1	25.3	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.6
	12H	20.8	22.0	21.3	22.4	23.0	26.1	27.3	26.6	27.7	28.2
4H	2H	19.3	20.7	19.7	21.1	21.6	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.2	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	26.0	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.8	26.7	26.3	27.2	27.8
	8H	22.0	22.9	22.6	23.4	24.0	26.5	27.4	27.0	27.9	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.3	28.1	27.8	28.6	29.2
8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.6
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.9	26.6	27.4	28.0
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.5	28.2	28.8
	12H	22.9	23.5	23.5	24.1	24.7	27.9	28.5	28.5	29.0	29.7
12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.2	26.0	26.5
	6H	22.9	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.4	28.0
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.6	28.2	28.8

Maximum UGR = 29.7

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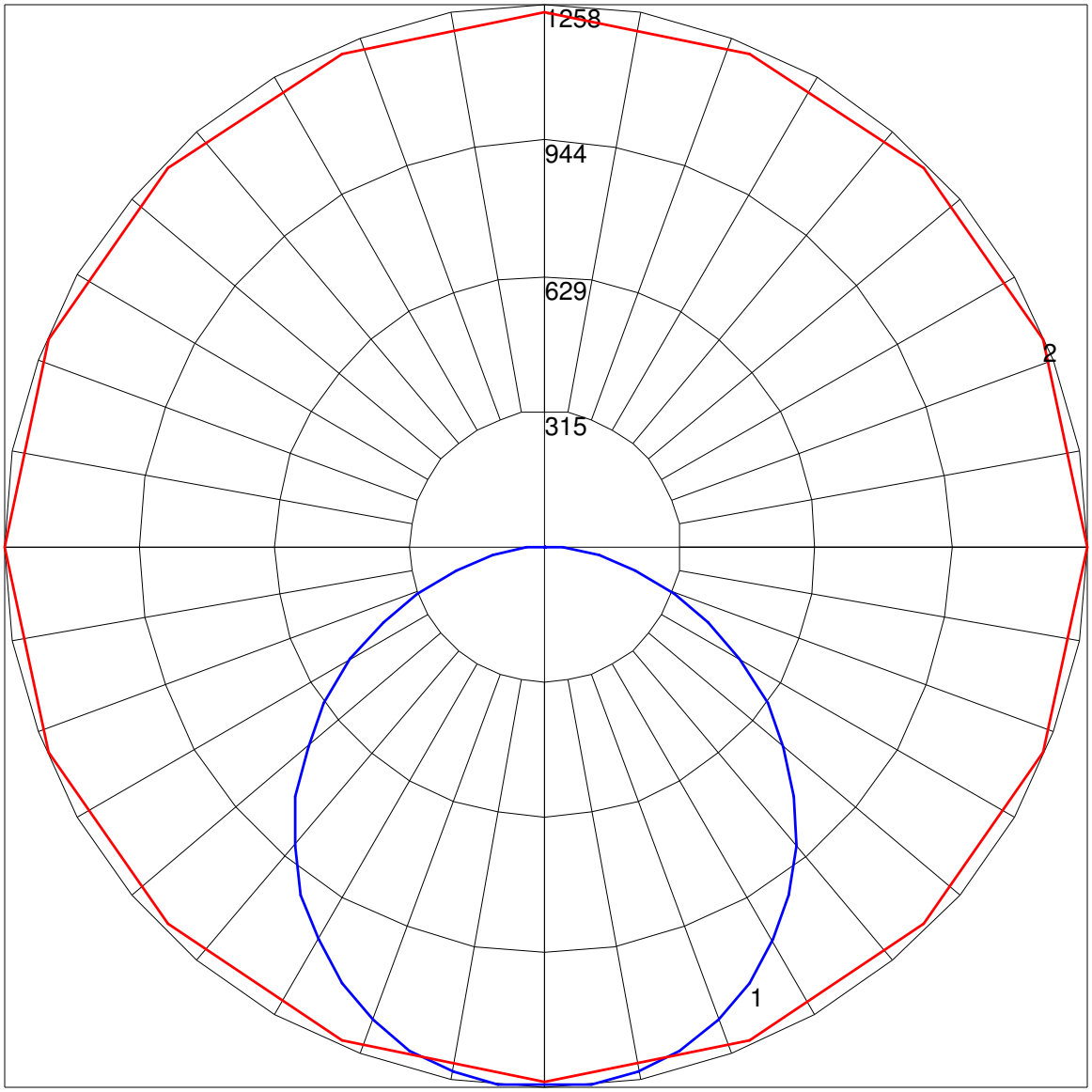
POLAR GRAPH



Maximum Candela = 1258.213 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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