IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-935-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-L5-935-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	3306
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	10277	8262	7833
55	9724	7399	7066
65	8691	6369	6288
75	7342	5253	5596
85	4136	4372	5039

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1040.910	1040.910	1040.910	1040.910	1040.910
5	1044.317	1039.206	1032.392	1030.688	1032.392
10	1028.985	1023.874	1017.059	1017.059	1020.467
15	1006.838	1001.727	994.912	996.616	996.616
20	972.765	967.654	959.136	965.951	967.654
25	930.175	925.064	923.360	928.471	931.878
30	877.363	877.363	877.363	884.177	882.474
35	821.143	821.143	821.143	827.958	833.069
40	752.999	754.702	756.406	768.331	775.146
45	679.743	684.854	689.965	703.594	708.705
50	599.673	604.784	616.709	637.153	647.374
55	523.010	524.714	546.861	563.897	579.230
60	434.422	442.940	473.606	505.974	516.196
65	345.834	359.463	395.239	431.015	446.348
70	264.061	277.690	321.984	366.278	379.907
75	180.583	204.434	253.839	303.244	323.687
80	105.624	131.179	197.620	247.024	269.171
85	35.776	83.477	144.807	194.212	216.359
90	0.000	45.998	107.328	151.622	168.658
95	0.000	23.851	73.256	117.550	132.882
100	0.000	11.925	51.109	86.884	102.217
105	0.000	6.814	35.776	63.034	76.663
110	0.000	5.111	23.851	45.998	54.516
115	0.000	3.407	15.333	32.369	40.887
120	0.000	0.000	8.518	20.443	25.554
125	0.000	0.000	6.814	13.629	17.036
130	0.000	0.000	0.000	8.518	10.222
135	0.000	0.000	0.000	0.000	6.814
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	380.05	N.A.	11.50
0-30	807.20	N.A.	24.40
0-40	1322.62	N.A.	40.00
0-60	2347.11	N.A.	71.00
0-80	3009.5	N.A.	91.00
0-90	3162.81	N.A.	95.70
10-90	3064.45	N.A.	92.70
20-40	942.56	N.A.	28.50
20-50	1477.24	N.A.	44.70
40-70	1417.63	N.A.	42.90
60-80	662.40	N.A.	20.00
70-80	269.26	N.A.	8.10
80-90	153.31	N.A.	4.60
90-110	117.80	N.A.	3.60
90-120	135.69	N.A.	4.10
90-130	142.09	N.A.	4.30
90-150	143.11	N.A.	4.30
90-180	143.11	N.A.	4.30
110-180	25.30	N.A.	0.80
0-180	3305.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.36
10-20	281.69
20-30	427.15
30-40	515.41
40-50	534.68
50-60	489.81
60-70	393.14
70-80	269.26
80-90	153.31
90-100	78.64
100-110	39.16
110-120	17.89
120-130	6.40
130-140	1.02
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	17.9	19.5	18.3	19.9	20.3	19.6	21.2	20.0	21.6	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.9	23.4	22.4	23.8	24.2
	4H	19.8	21.2	20.3	21.6	22.1	23.0	24.4	23.5	24.8	25.3
	6H	20.1	21.4	20.6	21.8	22.3	24.2	25.5	24.7	25.9	26.4
	8H	20.2	21.4	20.7	21.9	22.4	24.8	26.0	25.3	26.5	27.0
	12H	20.2	21.4	20.7	21.8	22.4	25.5	26.7	26.0	27.1	27.6
4H	2H	18.7	20.1	19.1	20.5	20.9	20.0	21.4	20.5	21.8	22.3
	3H	20.4	21.5	20.8	22.0	22.5	22.6	23.7	23.0	24.2	24.7
	4H	20.9	22.0	21.4	22.5	23.0	23.8	24.9	24.3	25.4	25.9
	6H	21.3	22.3	21.9	22.8	23.3	25.2	26.1	25.7	26.6	27.2
	8H	21.4	22.3	22.0	22.8	23.4	25.9	26.8	26.4	27.3	27.8
	12H	21.5	22.3	22.0	22.8	23.4	26.7	27.5	27.2	28.0	28.6
8H	4H	21.5	22.4	22.0	22.9	23.4	24.0	24.9	24.5	25.4	26.0
	6H	22.0	22.8	22.6	23.3	23.9	25.5	26.3	26.0	26.8	27.4
	8H	22.2	22.9	22.7	23.4	24.0	26.3	27.0	26.9	27.6	28.2
	12H	22.3	22.9	22.9	23.5	24.1	27.3	27.9	27.9	28.4	29.1
12H	4H	21.6	22.4	22.2	23.0	23.5	24.0	24.8	24.6	25.4	25.9
	6H	22.3	22.9	22.8	23.5	24.1	25.5	26.2	26.1	26.8	27.4
	8H	22.5	23.1	23.1	23.6	24.3	26.4	27.0	27.0	27.6	28.2

Maximum UGR = 29.1

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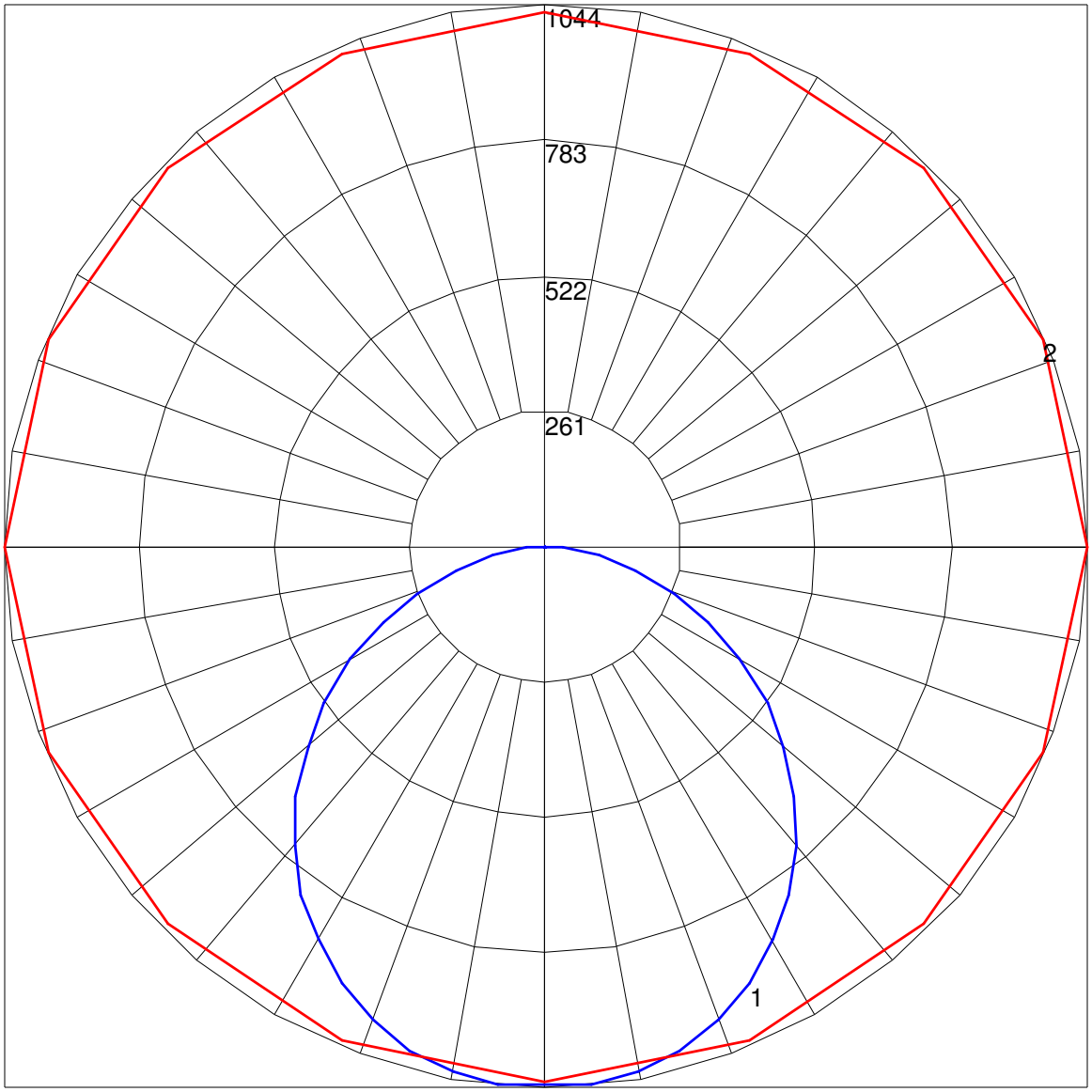
POLAR GRAPH



Maximum Candela = 1044.317 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.)