IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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-2-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	996
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	9.4
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)	2.00 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	12169	9858	9437
55	11431	8802	8513
65	10094	7546	7576
75	8311	6186	6742
85	4192	5090	6071

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	313.527	313.527	313.527	313.527	313.527
5	314.553	313.014	310.961	310.448	310.961
10	309.935	308.396	306.343	306.343	307.369
15	303.264	301.725	299.672	300.185	300.185
20	293.002	291.462	288.896	290.949	291.462
25	280.173	278.634	278.121	279.660	280.686
30	264.266	264.266	264.266	266.318	265.805
35	247.332	247.332	247.332	249.385	250.924
40	226.807	227.320	227.833	231.425	233.478
45	204.742	206.281	207.821	211.926	213.465
50	180.624	182.164	185.756	191.913	194.992
55	157.533	158.046	164.717	169.849	174.467
60	130.850	133.416	142.652	152.402	155.481
65	104.167	108.272	119.048	129.824	134.442
70	79.536	83.641	96.983	110.325	114.430
75	54.393	61.577	76.457	91.338	97.496
80	31.815	39.512	59.524	74.405	81.076
85	10.776	25.144	43.617	58.498	65.168
90	0.000	13.855	32.328	45.669	50.801
95	0.000	7.184	22.065	35.406	40.025
100	0.000	3.592	15.394	26.170	30.788
105	0.000	2.053	10.776	18.986	23.091
110	0.000	1.539	7.184	13.855	16.420
115	0.000	1.026	4.618	9.750	12.315
120	0.000	0.000	2.566	6.158	7.697
125	0.000	0.000	2.053	4.105	5.131
130	0.000	0.000	0.000	2.566	3.079
135	0.000	0.000	0.000	0.000	2.053
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	114.47	N.A.	11.50
0-30	243.13	N.A.	24.40
0-40	398.38	N.A.	40.00
0-60	706.96	N.A.	71.00
0-80	906.48	N.A.	91.00
0-90	952.65	N.A.	95.70
10-90	923.03	N.A.	92.70
20-40	283.90	N.A.	28.50
20-50	444.95	N.A.	44.70
40-70	427.00	N.A.	42.90
60-80	199.52	N.A.	20.00
70-80	81.10	N.A.	8.10
80-90	46.18	N.A.	4.60
90-110	35.48	N.A.	3.60
90-120	40.87	N.A.	4.10
90-130	42.80	N.A.	4.30
90-150	43.10	N.A.	4.30
90-180	43.10	N.A.	4.30
110-180	7.62	N.A.	0.80
0-180	995.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.63
10-20	84.85
20-30	128.66
30-40	155.24
40-50	161.05
50-60	147.53
60-70	118.41
70-80	81.10
80-90	46.18
90-100	23.69
100-110	11.80
110-120	5.39
120-130	1.93
130-140	0.31
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	88	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	67	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	29	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	21.7	20.6	22.1	22.5
	3H	20.0	21.4	20.4	21.8	22.3	22.4	23.9	22.9	24.3	24.7
	4H	20.4	21.8	20.9	22.2	22.7	23.5	24.9	24.0	25.3	25.8
	6H	20.7	22.0	21.2	22.4	22.9	24.7	25.9	25.1	26.4	26.9
	8H	20.8	22.0	21.3	22.5	23.0	25.2	26.5	25.7	26.9	27.4
	12H	20.8	22.0	21.3	22.4	23.0	25.9	27.0	26.4	27.5	28.0
4H	2H	19.3	20.6	19.7	21.1	21.5	20.6	21.9	21.0	22.4	22.8
	3H	20.9	22.1	21.4	22.6	23.1	23.1	24.2	23.6	24.7	25.2
	4H	21.5	22.6	22.0	23.1	23.6	24.3	25.4	24.8	25.9	26.4
	6H	21.9	22.9	22.4	23.4	23.9	25.6	26.6	26.2	27.1	27.6
	8H	22.0	22.9	22.5	23.4	24.0	26.3	27.2	26.8	27.7	28.3
	12H	22.1	22.9	22.6	23.4	24.0	27.1	27.8	27.6	28.4	29.0
8H	4H	22.1	23.0	22.6	23.5	24.0	24.5	25.4	25.0	25.9	26.5
	6H	22.6	23.3	23.1	23.9	24.5	26.0	26.7	26.5	27.3	27.8
	8H	22.8	23.4	23.3	24.0	24.6	26.8	27.4	27.3	28.0	28.6
	12H	22.9	23.5	23.4	24.0	24.7	27.7	28.3	28.2	28.8	29.5
12H	4H	22.2	23.0	22.8	23.6	24.1	24.5	25.3	25.1	25.9	26.4
	6H	22.8	23.5	23.4	24.0	24.7	26.0	26.7	26.6	27.2	28.8
	8H	23.1	23.7	23.6	24.2	24.9	26.9	27.5	27.4	28.0	28.7

Maximum UGR = 29.5

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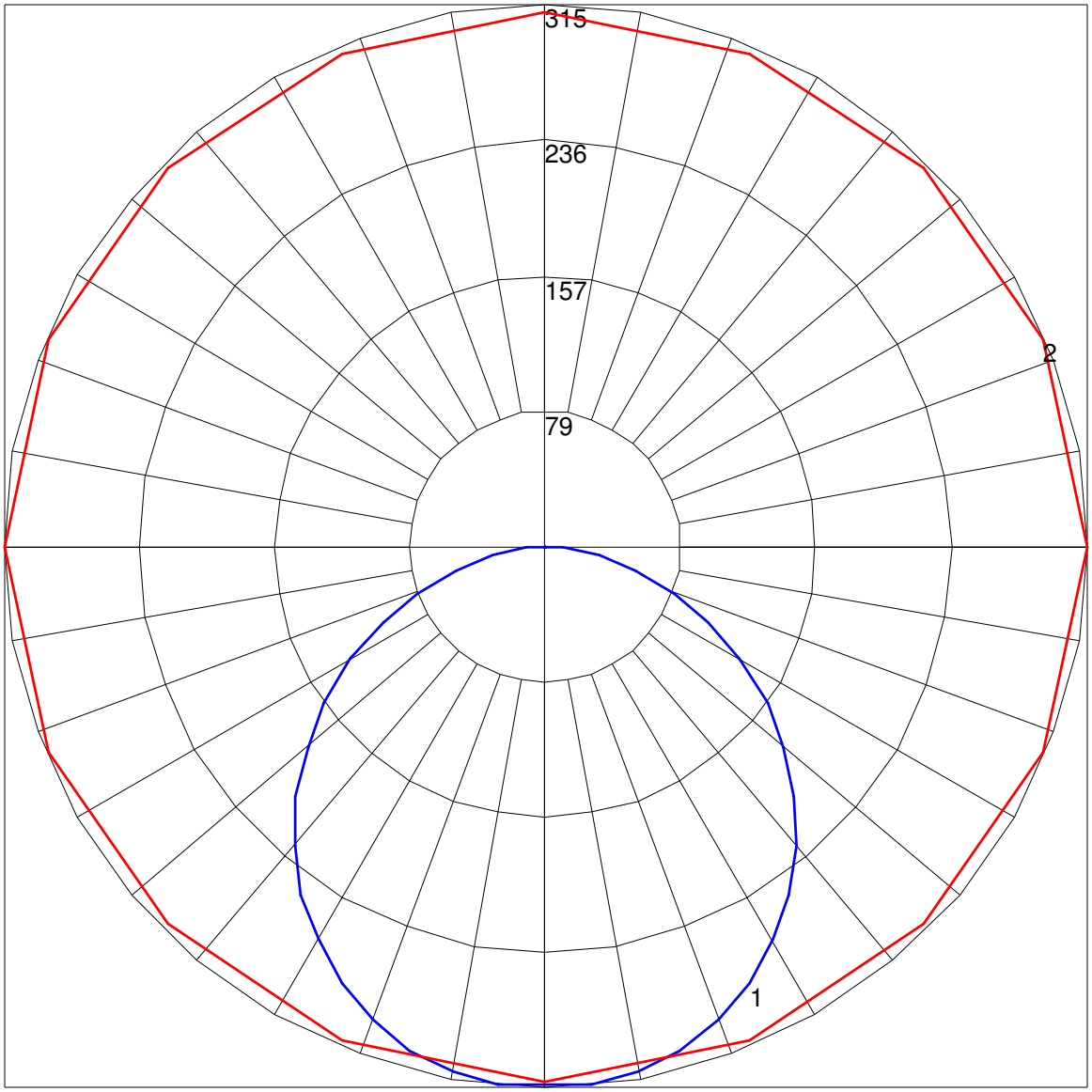
POLAR GRAPH



Maximum Candela = 314.553 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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