IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L10-835-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-L10-835-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	1941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	18.3
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	23715	19211	18391
55	22276	17153	16590
65	19671	14705	14763
75	16197	12055	13140
85	8170	9920	11832

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	611	611	611	611	611
5	613	610	606	605	606
10	604	601	597	597	599
15	591	588	584	585	585
20	571	568	563	567	568
25	546	543	542	545	547
30	515	515	515	519	518
35	482	482	482	486	489
40	442	443	444	451	455
45	399	402	405	413	416
50	352	355	362	374	380
55	307	308	321	331	340
60	255	260	278	297	303
65	203	211	232	253	262
70	155	163	189	215	223
75	106	120	149	178	190
80	62	77	116	145	158
85	21	49	85	114	127
90	0	27	63	89	99
95	0	14	43	69	78
100	0	7	30	51	60
105	0	4	21	37	45
110	0	3	14	27	32
115	0	2	9	19	24
120	0	0	5	12	15
125	0	0	4	8	10
130	0	0	0	5	6
135	0	0	0	0	4
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.09	N.A.	11.50
0-30	473.82	N.A.	24.40
0-40	776.36	N.A.	40.00
0-60	1377.72	N.A.	71.00
0-80	1766.54	N.A.	91.00
0-90	1856.53	N.A.	95.70
10-90	1798.79	N.A.	92.70
20-40	553.27	N.A.	28.50
20-50	867.12	N.A.	44.70
40-70	832.13	N.A.	42.90
60-80	388.82	N.A.	20.00
70-80	158.05	N.A.	8.10
80-90	89.99	N.A.	4.60
90-110	69.15	N.A.	3.60
90-120	79.65	N.A.	4.10
90-130	83.40	N.A.	4.30
90-150	84.00	N.A.	4.30
90-180	84.00	N.A.	4.30
110-180	14.85	N.A.	0.80
0-180	1940.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.74
10-20	165.35
20-30	250.73
30-40	302.54
40-50	313.85
50-60	287.51
60-70	230.77
70-80	158.05
80-90	89.99
90-100	46.16
100-110	22.99
110-120	10.50
120-130	3.76
130-140	0.60
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	20.8	22.4	21.2	22.8	23.2	22.5	24.0	22.9	24.4	24.8
	3H	22.3	23.7	22.7	24.1	24.6	24.7	26.2	25.2	26.6	27.0
	4H	22.7	24.1	23.2	24.5	25.0	25.8	27.2	26.3	27.6	28.1
	6H	23.0	24.3	23.5	24.7	25.2	27.0	28.2	27.4	28.7	29.2
	8H	23.1	24.3	23.6	24.8	25.3	27.5	28.8	28.0	29.2	29.7
	12H	23.1	24.3	23.6	24.7	25.3	28.2	29.3	28.7	29.8	30.3
4H	2H	21.6	22.9	22.0	23.4	23.8	22.9	24.2	23.3	24.7	25.1
	3H	23.2	24.4	23.7	24.9	25.4	25.4	26.5	25.9	27.0	27.5
	4H	23.8	24.9	24.3	25.4	25.9	26.6	27.7	27.1	28.2	28.7
	6H	24.2	25.2	24.7	25.7	26.2	27.9	28.9	28.5	29.4	29.9
	8H	24.3	25.2	24.8	25.7	26.3	28.6	29.5	29.1	30.0	30.6
	12H	24.4	25.2	24.9	25.7	26.3	29.4	30.1	29.9	30.7	31.3
8H	4H	24.4	25.3	24.9	25.8	26.3	26.8	27.7	27.3	28.2	28.8
	6H	24.9	25.6	25.4	26.2	26.8	28.3	29.0	28.8	29.6	30.1
	8H	25.1	25.7	25.6	26.3	26.9	29.1	29.7	29.6	30.3	30.9
	12H	25.2	25.8	25.7	26.3	27.0	30.0	30.6	30.5	31.1	31.8
12H	4H	24.5	25.3	25.1	25.9	26.4	26.8	27.6	27.4	28.2	28.7
	6H	25.1	25.8	25.7	26.3	27.0	28.3	29.0	28.9	29.5	30.1
	8H	25.4	26.0	25.9	26.5	27.2	29.2	29.8	29.7	30.3	31.0

Maximum UGR = 31.8

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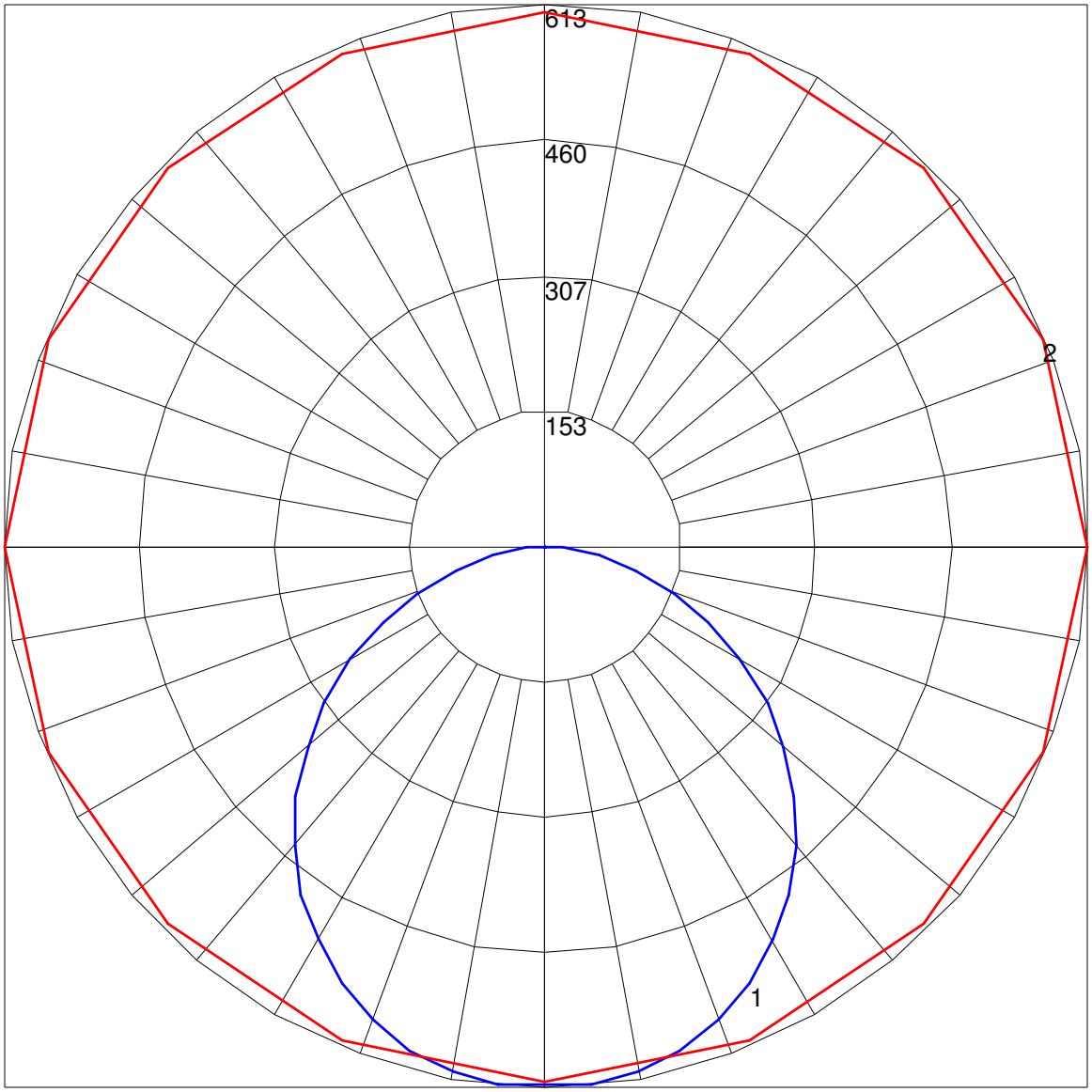
POLAR GRAPH



Maximum Candela = 613 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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