IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-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-2-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	826
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	10100	8182	7833
55	9487	7306	7066
65	8378	6263	6288
75	6898	5134	5596
85	3480	4225	5039

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	260.227	260.227	260.227	260.227	260.227
5	261.079	259.802	258.098	257.672	258.098
10	257.246	255.968	254.265	254.265	255.117
15	251.709	250.432	248.728	249.154	249.154
20	243.191	241.914	239.784	241.488	241.914
25	232.544	231.266	230.840	232.118	232.970
30	219.341	219.341	219.341	221.044	220.618
35	205.286	205.286	205.286	206.989	208.267
40	188.250	188.676	189.101	192.083	193.786
45	169.936	171.213	172.491	175.898	177.176
50	149.918	151.196	154.177	159.288	161.844
55	130.753	131.178	136.715	140.974	144.807
60	108.606	110.735	118.401	126.494	129.049
65	86.459	89.866	98.810	107.754	111.587
70	66.015	69.422	80.496	91.569	94.977
75	45.146	51.109	63.460	75.811	80.922
80	26.406	32.795	49.405	61.756	67.293
85	8.944	20.869	36.202	48.553	54.090
90	0.000	11.499	26.832	37.905	42.165
95	0.000	5.963	18.314	29.387	33.221
100	0.000	2.981	12.777	21.721	25.554
105	0.000	1.704	8.944	15.758	19.166
110	0.000	1.278	5.963	11.499	13.629
115	0.000	0.852	3.833	8.092	10.222
120	0.000	0.000	2.130	5.111	6.389
125	0.000	0.000	1.704	3.407	4.259
130	0.000	0.000	0.000	2.130	2.555
135	0.000	0.000	0.000	0.000	1.704
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	95.01	N.A.	11.50
0-30	201.80	N.A.	24.40
0-40	330.65	N.A.	40.00
0-60	586.78	N.A.	71.00
0-80	752.38	N.A.	91.00
0-90	790.70	N.A.	95.70
10-90	766.11	N.A.	92.70
20-40	235.64	N.A.	28.50
20-50	369.31	N.A.	44.70
40-70	354.41	N.A.	42.90
60-80	165.60	N.A.	20.00
70-80	67.32	N.A.	8.10
80-90	38.33	N.A.	4.60
90-110	29.45	N.A.	3.60
90-120	33.92	N.A.	4.10
90-130	35.52	N.A.	4.30
90-150	35.78	N.A.	4.30
90-180	35.78	N.A.	4.30
110-180	6.33	N.A.	0.80
0-180	826.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.59
10-20	70.42
20-30	106.79
30-40	128.85
40-50	133.67
50-60	122.45
60-70	98.28
70-80	67.32
80-90	38.33
90-100	19.66
100-110	9.79
110-120	4.47
120-130	1.60
130-140	0.25
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	77	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	52	77	66	57	51	63	56	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	33	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	17.8	19.4	18.2	19.8	20.2	19.5	21.0	19.9	21.4	21.9
	3H	19.3	20.7	19.7	21.1	21.6	21.7	23.2	22.2	23.6	24.1
	4H	19.7	21.1	20.2	21.5	22.0	22.8	24.2	23.3	24.6	25.1
	6H	20.0	21.3	20.5	21.8	22.2	24.0	25.2	24.4	25.7	26.2
	8H	20.1	21.3	20.6	21.8	22.3	24.6	25.8	25.0	26.2	26.7
	12H	20.1	21.3	20.6	21.7	22.3	25.2	26.3	25.7	26.8	27.3
4H	2H	18.6	19.9	19.0	20.4	20.8	19.9	21.2	20.3	21.7	22.1
	3H	20.3	21.4	20.7	21.9	22.4	22.4	23.5	22.9	24.0	24.5
	4H	20.8	21.9	21.3	22.4	22.9	23.6	24.7	24.1	25.2	25.7
	6H	21.2	22.2	21.7	22.7	23.2	25.0	25.9	25.5	26.4	26.9
	8H	21.3	22.2	21.8	22.7	23.3	25.6	26.5	26.1	27.0	27.6
	12H	21.4	22.2	21.9	22.7	23.3	26.4	27.2	26.9	27.7	28.3
8H	4H	21.4	22.3	21.9	22.8	23.3	23.8	24.7	24.3	25.2	25.8
	6H	21.9	22.7	22.5	23.2	23.8	25.3	26.0	25.8	26.6	27.2
	8H	22.1	22.7	22.6	23.3	23.9	26.1	26.8	26.6	27.3	27.9
	12H	22.2	22.8	22.7	23.3	24.0	27.0	27.6	27.6	28.1	28.8
12H	4H	21.5	22.3	22.1	22.9	23.4	23.8	24.6	24.4	25.2	25.7
	6H	22.1	22.8	22.7	23.3	24.0	25.3	26.0	25.9	26.5	27.2
	8H	22.4	23.0	22.9	23.5	24.2	26.2	26.8	26.7	27.3	28.0

Maximum UGR = 28.8

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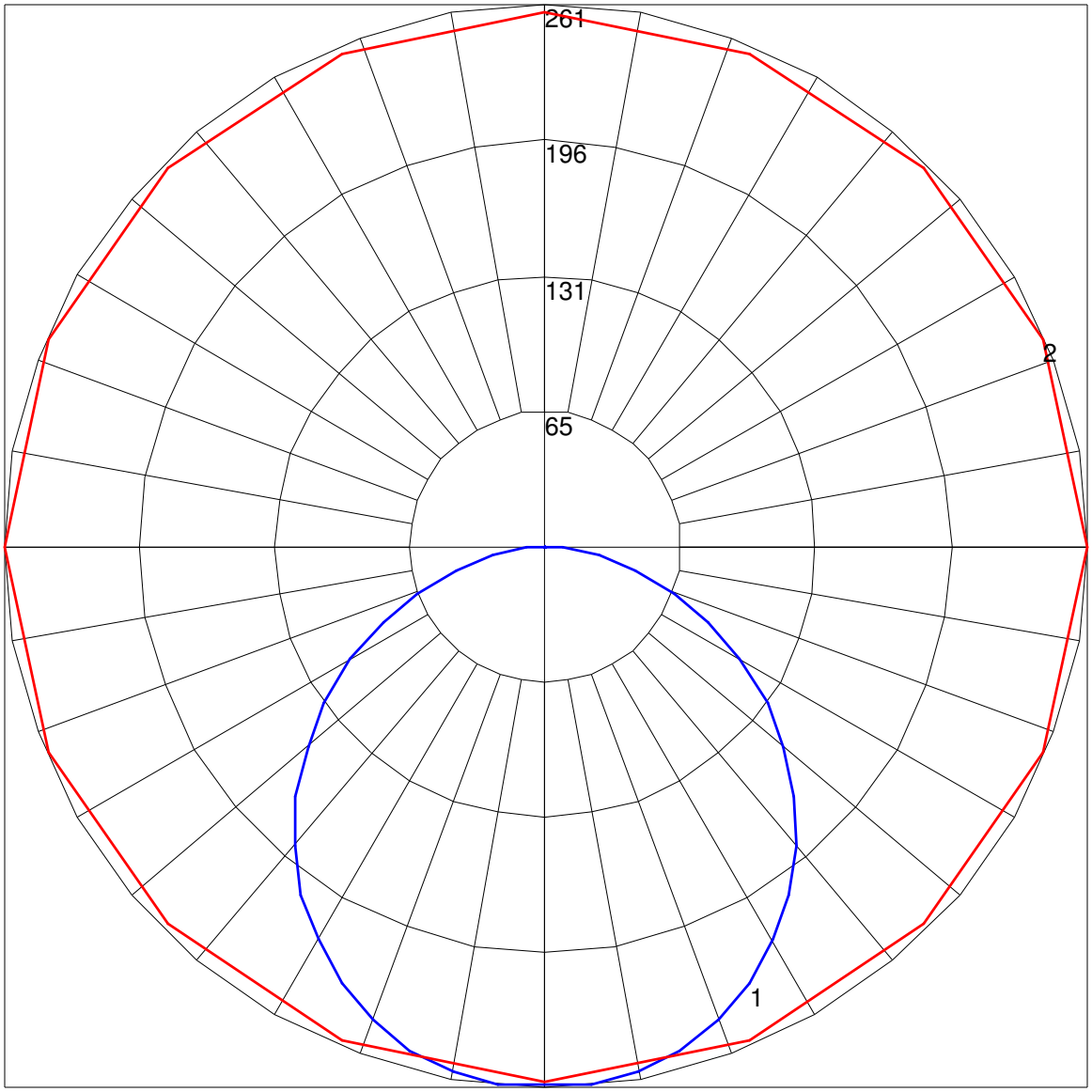
POLAR GRAPH



Maximum Candela = 261.079 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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