IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-827-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-L5-827-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	966
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	11804	9562	9154
55	11088	8538	8257
65	9791	7319	7348
75	8062	6000	6540
85	4067	4938	5889

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	304.121	304.121	304.121	304.121	304.121
5	305.117	303.623	301.632	301.135	301.632
10	300.637	299.144	297.153	297.153	298.148
15	294.166	292.673	290.682	291.180	291.180
20	284.211	282.718	280.230	282.221	282.718
25	271.768	270.275	269.777	271.270	272.266
30	256.338	256.338	256.338	258.329	257.831
35	239.912	239.912	239.912	241.903	243.397
40	220.003	220.500	220.998	224.482	226.473
45	198.600	200.093	201.586	205.568	207.061
50	175.206	176.699	180.183	186.156	189.142
55	152.807	153.305	159.776	164.753	169.233
60	126.925	129.413	138.373	147.830	150.816
65	101.042	105.024	115.476	125.929	130.409
70	77.150	81.132	94.074	107.015	110.997
75	52.761	59.729	74.164	88.598	94.571
80	30.860	38.326	57.738	72.173	78.643
85	10.453	24.389	42.308	56.743	63.213
90	0.000	13.439	31.358	44.299	49.277
95	0.000	6.968	21.403	34.344	38.824
100	0.000	3.484	14.932	25.385	29.865
105	0.000	1.991	10.453	18.417	22.398
110	0.000	1.493	6.968	13.439	15.928
115	0.000	0.995	4.480	9.457	11.946
120	0.000	0.000	2.489	5.973	7.466
125	0.000	0.000	1.991	3.982	4.977
130	0.000	0.000	0.000	2.489	2.986
135	0.000	0.000	0.000	0.000	1.991
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	111.04	N.A.	11.50
0-30	235.84	N.A.	24.40
0-40	386.43	N.A.	40.00
0-60	685.75	N.A.	71.00
0-80	879.28	N.A.	91.00
0-90	924.07	N.A.	95.70
10-90	895.34	N.A.	92.70
20-40	275.39	N.A.	28.50
20-50	431.60	N.A.	44.70
40-70	414.19	N.A.	42.90
60-80	193.53	N.A.	20.00
70-80	78.67	N.A.	8.10
80-90	44.79	N.A.	4.60
90-110	34.42	N.A.	3.60
90-120	39.64	N.A.	4.10
90-130	41.51	N.A.	4.30
90-150	41.81	N.A.	4.30
90-180	41.81	N.A.	4.30
110-180	7.39	N.A.	0.80
0-180	965.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.74
10-20	82.30
20-30	124.80
30-40	150.59
40-50	156.22
50-60	143.11
60-70	114.86
70-80	78.67
80-90	44.79
90-100	22.98
100-110	11.44
110-120	5.23
120-130	1.87
130-140	0.30
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	18.4	20.0	18.8	20.4	20.8	20.1	21.6	20.5	22.0	22.5
	3H	19.9	21.3	20.3	21.7	22.2	22.3	23.8	22.8	24.2	24.6
	4H	20.3	21.7	20.8	22.1	22.6	23.4	24.8	23.9	25.2	25.7
	6H	20.6	21.9	21.1	22.3	22.8	24.6	25.8	25.0	26.3	26.8
	8H	20.7	21.9	21.2	22.4	22.9	25.1	26.4	25.6	26.8	27.3
	12H	20.7	21.9	21.2	22.3	22.9	25.8	26.9	26.3	27.4	27.9
4H	2H	19.2	20.5	19.6	21.0	21.4	20.5	21.8	20.9	22.3	22.7
	3H	20.8	22.0	21.3	22.5	23.0	23.0	24.1	23.5	24.6	25.1
	4H	21.4	22.5	21.9	23.0	23.5	24.2	25.3	24.7	25.8	26.3
	6H	21.8	22.8	22.3	23.3	23.8	25.5	26.5	26.1	27.0	27.5
	8H	21.9	22.8	22.4	23.3	23.9	26.2	27.1	26.7	27.6	28.2
	12H	22.0	22.8	22.5	23.3	23.9	27.0	27.8	27.5	28.3	28.9
8H	4H	22.0	22.9	22.5	23.4	23.9	24.4	25.3	24.9	25.8	26.4
	6H	22.5	23.2	23.0	23.8	24.4	25.9	26.6	26.4	27.2	27.7
	8H	22.7	23.3	23.2	23.9	24.5	26.7	27.4	27.2	27.9	28.5
	12H	22.8	23.4	23.3	23.9	24.6	27.6	28.2	28.1	28.7	29.4
12H	4H	22.1	22.9	22.7	23.5	24.0	24.4	25.2	25.0	25.8	26.3
	6H	22.7	23.4	23.3	23.9	24.6	25.9	26.6	26.5	27.1	27.7
	8H	23.0	23.6	23.5	24.1	24.8	26.8	27.4	27.3	27.9	28.6

Maximum UGR = 29.4

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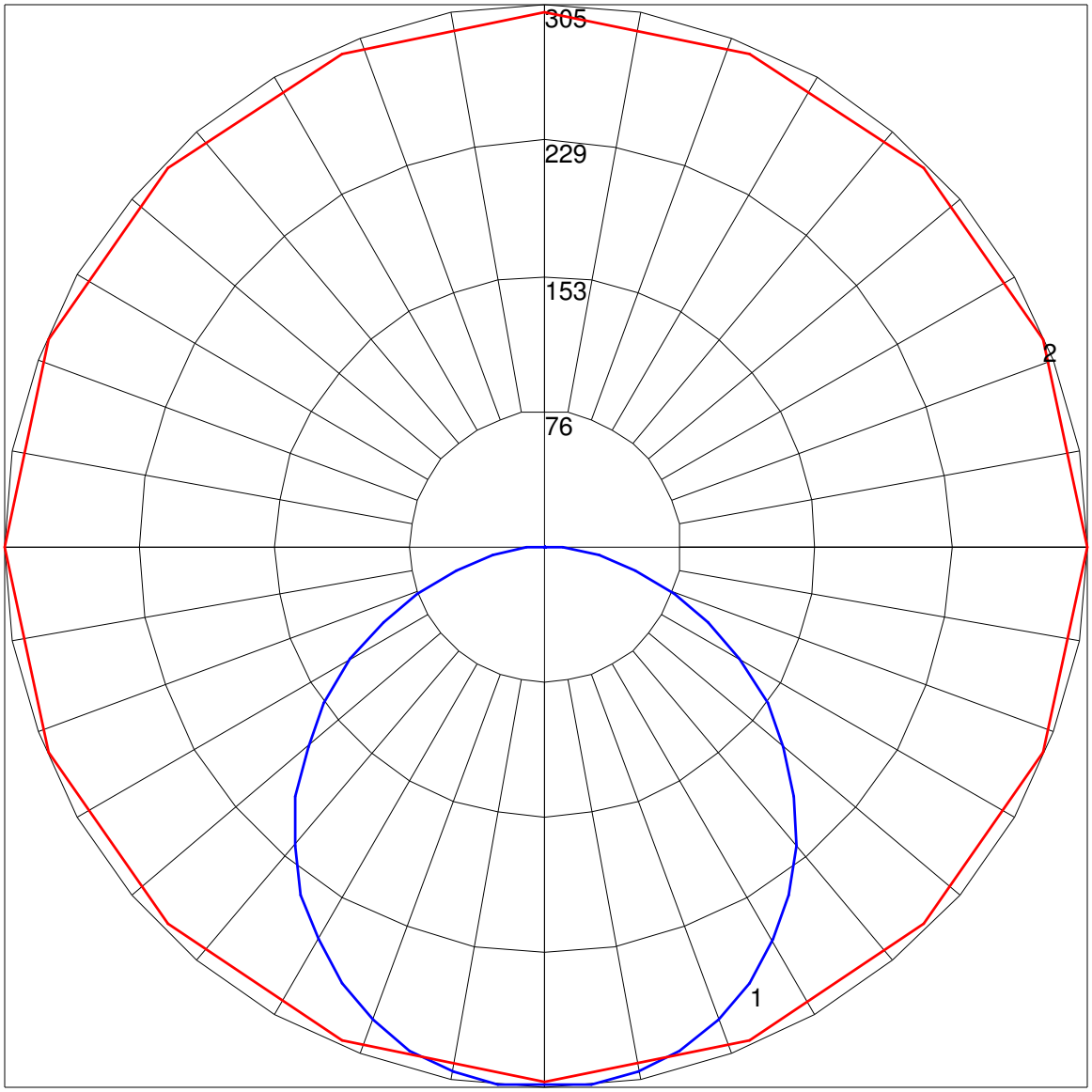
POLAR GRAPH



Maximum Candela = 305.117 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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