IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-930-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-L5-930-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	817
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
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	9979	8083	7739
55	9373	7218	6981
65	8277	6188	6212
75	6815	5072	5529
85	3438	4174	4978

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	257.092	257.092	257.092	257.092	257.092
5	257.934	256.671	254.988	254.568	254.988
10	254.147	252.884	251.201	251.201	252.043
15	248.677	247.414	245.731	246.152	246.152
20	240.261	238.999	236.895	238.578	238.999
25	229.742	228.480	228.059	229.321	230.163
30	216.698	216.698	216.698	218.381	217.960
35	202.812	202.812	202.812	204.496	205.758
40	185.982	186.402	186.823	189.769	191.452
45	167.888	169.151	170.413	173.779	175.041
50	148.112	149.374	152.320	157.369	159.894
55	129.177	129.598	135.068	139.276	143.063
60	107.297	109.401	116.975	124.970	127.494
65	85.417	88.783	97.619	106.456	110.242
70	65.220	68.586	79.526	90.466	93.832
75	44.602	50.493	62.695	74.898	79.947
80	26.088	32.400	48.810	61.012	66.482
85	8.836	20.618	35.766	47.968	53.438
90	0.000	11.361	26.509	37.449	41.657
95	0.000	5.891	18.093	29.033	32.820
100	0.000	2.945	12.623	21.459	25.246
105	0.000	1.683	8.836	15.569	18.935
110	0.000	1.262	5.891	11.361	13.465
115	0.000	0.842	3.787	7.995	10.099
120	0.000	0.000	2.104	5.049	6.312
125	0.000	0.000	1.683	3.366	4.208
130	0.000	0.000	0.000	2.104	2.525
135	0.000	0.000	0.000	0.000	1.683
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	93.87	N.A.	11.50
0-30	199.37	N.A.	24.40
0-40	326.67	N.A.	40.00
0-60	579.71	N.A.	71.00
0-80	743.31	N.A.	91.00
0-90	781.18	N.A.	95.70
10-90	756.88	N.A.	92.70
20-40	232.80	N.A.	28.50
20-50	364.86	N.A.	44.70
40-70	350.14	N.A.	42.90
60-80	163.60	N.A.	20.00
70-80	66.50	N.A.	8.10
80-90	37.87	N.A.	4.60
90-110	29.10	N.A.	3.60
90-120	33.51	N.A.	4.10
90-130	35.09	N.A.	4.30
90-150	35.35	N.A.	4.30
90-180	35.35	N.A.	4.30
110-180	6.25	N.A.	0.80
0-180	816.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.29
10-20	69.57
20-30	105.50
30-40	127.30
40-50	132.06
50-60	120.98
60-70	97.10
70-80	66.50
80-90	37.87
90-100	19.42
100-110	9.67
110-120	4.42
120-130	1.58
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	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	74	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	48	57	52	47	45
5	73	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	37	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	26	37	31	26	36	30	26	24
10	51	38	30	24	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	17.8	19.4	18.2	19.8	20.2	19.4	21.0	19.9	21.4	21.8
	3H	19.3	20.7	19.7	21.1	21.6	21.7	23.2	22.2	23.6	24.0
	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	21.7	22.2	24.0	25.2	24.4	25.7	26.2
	8H	20.1	21.3	20.6	21.8	22.3	24.5	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	20.2	21.4	20.7	21.9	22.4	22.4	23.5	22.8	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	24.9	25.9	25.4	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	26.3	27.1	26.9	27.7	28.3
8H	4H	21.4	22.2	21.9	22.8	23.3	23.8	24.7	24.3	25.2	25.8
	6H	21.9	22.6	22.4	23.2	23.8	25.3	26.0	25.8	26.6	27.1
	8H	22.1	22.7	22.6	23.3	23.9	26.1	26.7	26.6	27.3	27.9
	12H	22.2	22.8	22.7	23.3	24.0	27.0	27.6	27.5	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	27.1
	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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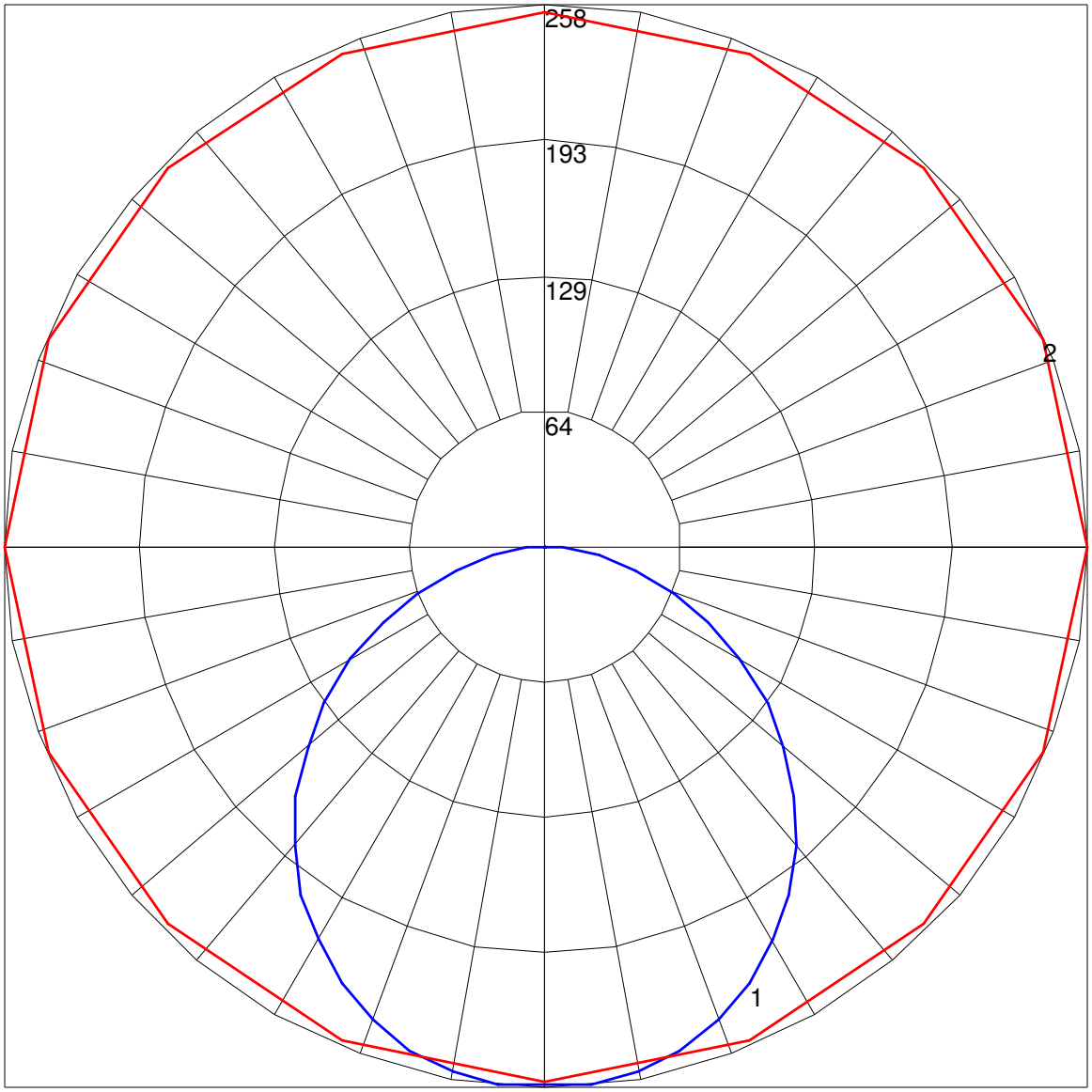
POLAR GRAPH



Maximum Candela = 257.934 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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