IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-830-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-L5-830-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	986
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	12047	9759	9343
55	11316	8714	8428
65	9993	7470	7500
75	8228	6124	6675
85	4150	5040	6011

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	310.392	310.392	310.392	310.392	310.392
5	311.408	309.884	307.852	307.344	307.852
10	306.836	305.312	303.280	303.280	304.296
15	300.232	298.708	296.676	297.184	297.184
20	290.072	288.548	286.007	288.040	288.548
25	277.371	275.847	275.339	276.863	277.879
30	261.623	261.623	261.623	263.655	263.147
35	244.859	244.859	244.859	246.891	248.415
40	224.539	225.047	225.555	229.111	231.143
45	202.694	204.218	205.743	209.807	211.331
50	178.818	180.342	183.898	189.994	193.042
55	155.958	156.466	163.070	168.150	172.722
60	129.542	132.082	141.226	150.878	153.926
65	103.125	107.189	117.857	128.526	133.098
70	78.741	82.805	96.013	109.221	113.285
75	53.849	60.961	75.693	90.425	96.521
80	31.496	39.116	58.929	73.661	80.265
85	10.668	24.892	43.181	57.913	64.517
90	0.000	13.716	32.004	45.213	50.293
95	0.000	7.112	21.844	35.052	39.624
100	0.000	3.556	15.240	25.908	30.480
105	0.000	2.032	10.668	18.796	22.860
110	0.000	1.524	7.112	13.716	16.256
115	0.000	1.016	4.572	9.652	12.192
120	0.000	0.000	2.540	6.096	7.620
125	0.000	0.000	2.032	4.064	5.080
130	0.000	0.000	0.000	2.540	3.048
135	0.000	0.000	0.000	0.000	2.032
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	113.33	N.A.	11.50
0-30	240.70	N.A.	24.40
0-40	394.39	N.A.	40.00
0-60	699.89	N.A.	71.00
0-80	897.41	N.A.	91.00
0-90	943.13	N.A.	95.70
10-90	913.80	N.A.	92.70
20-40	281.07	N.A.	28.50
20-50	440.50	N.A.	44.70
40-70	422.73	N.A.	42.90
60-80	197.52	N.A.	20.00
70-80	80.29	N.A.	8.10
80-90	45.72	N.A.	4.60
90-110	35.13	N.A.	3.60
90-120	40.46	N.A.	4.10
90-130	42.37	N.A.	4.30
90-150	42.67	N.A.	4.30
90-180	42.67	N.A.	4.30
110-180	7.55	N.A.	0.80
0-180	985.80	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.33
10-20	84.00
20-30	127.37
30-40	153.69
40-50	159.44
50-60	146.06
60-70	117.23
70-80	80.29
80-90	45.72
90-100	23.45
100-110	11.68
110-120	5.33
120-130	1.91
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	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	27.8
	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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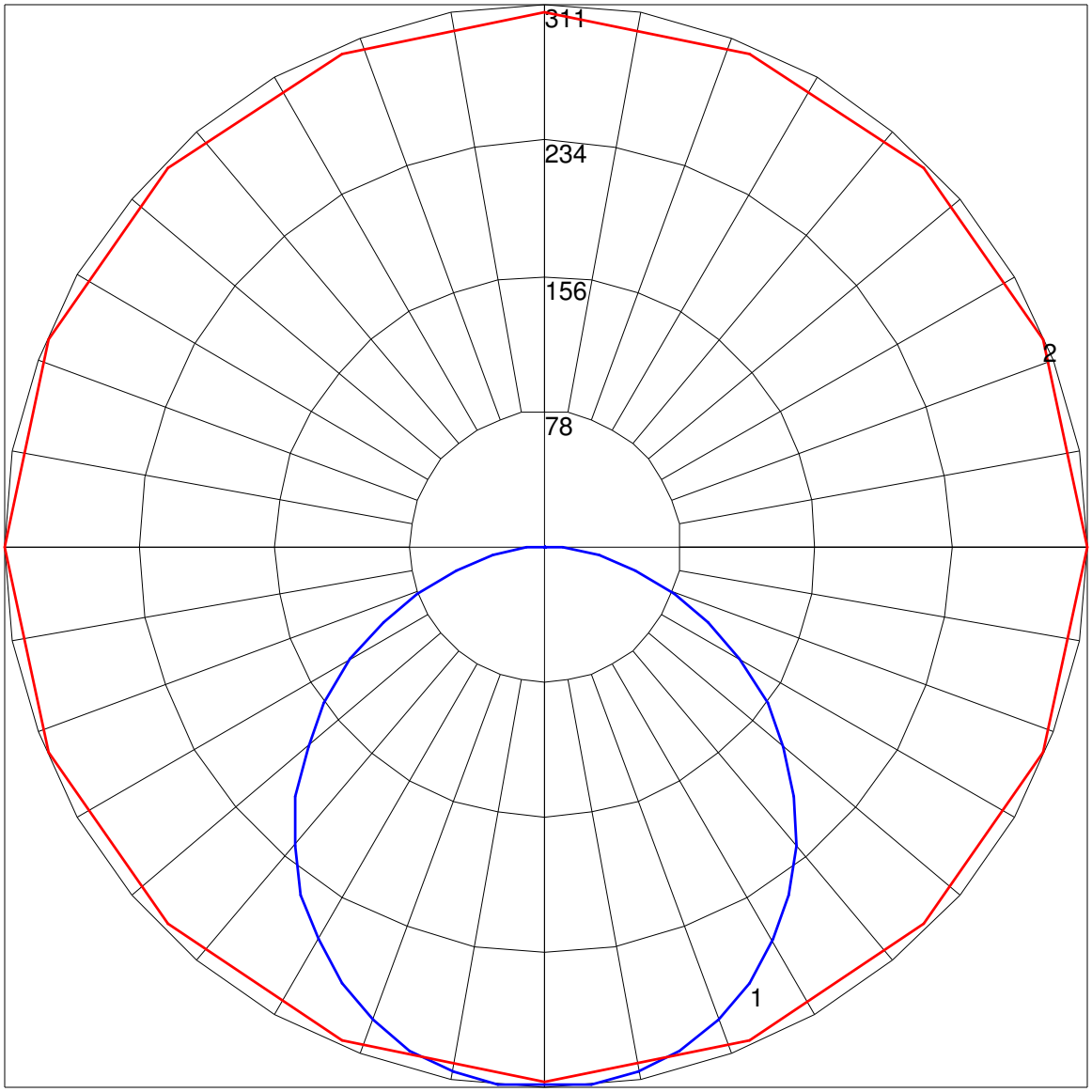
POLAR GRAPH



Maximum Candela = 311.408 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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