IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L5-850-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-L5-850-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	1056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	12899	10449	10004
55	12116	9330	9024
65	10699	7999	8030
75	8810	6557	7147
85	4444	5396	6436

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	332.339	332.339	332.339	332.339	332.339
5	333.427	331.795	329.619	329.075	329.619
10	328.531	326.899	324.724	324.724	325.812
15	321.460	319.828	317.653	318.197	318.197
20	310.582	308.950	306.230	308.406	308.950
25	296.983	295.352	294.808	296.440	297.527
30	280.122	280.122	280.122	282.298	281.754
35	262.172	262.172	262.172	264.348	265.980
40	240.415	240.959	241.503	245.311	247.486
45	217.026	218.658	220.290	224.641	226.273
50	191.462	193.094	196.901	203.428	206.692
55	166.985	167.529	174.600	180.039	184.935
60	138.701	141.421	151.211	161.546	164.810
65	110.417	114.768	126.191	137.613	142.509
70	84.309	88.660	102.802	116.944	121.295
75	57.656	65.271	81.045	96.819	103.346
80	33.723	41.882	63.095	78.869	85.940
85	11.422	26.652	46.234	62.008	69.079
90	0.000	14.686	34.267	48.409	53.849
95	0.000	7.615	23.389	37.531	42.426
100	0.000	3.807	16.318	27.740	32.636
105	0.000	2.176	11.422	20.125	24.477
110	0.000	1.632	7.615	14.686	17.406
115	0.000	1.088	4.895	10.335	13.054
120	0.000	0.000	2.720	6.527	8.159
125	0.000	0.000	2.176	4.351	5.439
130	0.000	0.000	0.000	2.720	3.264
135	0.000	0.000	0.000	0.000	2.176
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	121.34	N.A.	11.50
0-30	257.72	N.A.	24.40
0-40	422.28	N.A.	40.00
0-60	749.38	N.A.	71.00
0-80	960.87	N.A.	91.00
0-90	1009.81	N.A.	95.70
10-90	978.41	N.A.	92.70
20-40	300.94	N.A.	28.50
20-50	471.65	N.A.	44.70
40-70	452.62	N.A.	42.90
60-80	211.49	N.A.	20.00
70-80	85.97	N.A.	8.10
80-90	48.95	N.A.	4.60
90-110	37.61	N.A.	3.60
90-120	43.32	N.A.	4.10
90-130	45.37	N.A.	4.30
90-150	45.69	N.A.	4.30
90-180	45.69	N.A.	4.30
110-180	8.08	N.A.	0.80
0-180	1055.5	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.40
10-20	89.94
20-30	136.38
30-40	164.56
40-50	170.71
50-60	156.39
60-70	125.52
70-80	85.97
80-90	48.95
90-100	25.11
100-110	12.50
110-120	5.71
120-130	2.04
130-140	0.33
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	49	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	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	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	18.7	20.3	19.1	20.7	21.1	20.4	21.9	20.8	22.3	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.6	24.1	23.1	24.5	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.7	25.1	24.2	25.5	26.0
	6H	20.9	22.2	21.4	22.7	23.1	24.9	26.1	25.3	26.6	27.1
	8H	21.0	22.2	21.5	22.7	23.2	25.5	26.7	25.9	27.1	27.6
	12H	21.0	22.2	21.5	22.6	23.2	26.1	27.2	26.6	27.7	28.2
4H	2H	19.5	20.8	19.9	21.3	21.7	20.8	22.1	21.2	22.6	23.0
	3H	21.2	22.3	21.6	22.8	23.3	23.3	24.4	23.8	24.9	25.4
	4H	21.7	22.8	22.2	23.3	23.8	24.5	25.6	25.0	26.1	26.6
	6H	22.1	23.1	22.6	23.6	24.1	25.8	26.8	26.4	27.3	27.8
	8H	22.2	23.1	22.7	23.6	24.2	26.5	27.4	27.0	27.9	28.5
	12H	22.3	23.1	22.8	23.6	24.2	27.3	28.1	27.8	28.6	29.2
8H	4H	22.3	23.2	22.8	23.7	24.2	24.7	25.6	25.2	26.1	26.7
	6H	22.8	23.5	23.4	24.1	24.7	26.2	26.9	26.7	27.5	28.1
	8H	23.0	23.6	23.5	24.2	24.8	27.0	27.7	27.5	28.2	28.8
	12H	23.1	23.7	23.6	24.2	24.9	27.9	28.5	28.5	29.0	29.7
12H	4H	22.4	23.2	23.0	23.8	24.3	24.7	25.5	25.3	26.1	26.6
	6H	23.0	23.7	23.6	24.2	24.9	26.2	26.9	26.8	27.4	28.1
	8H	23.3	23.9	23.8	24.4	25.1	27.1	27.7	27.6	28.2	28.9

Maximum UGR = 29.7

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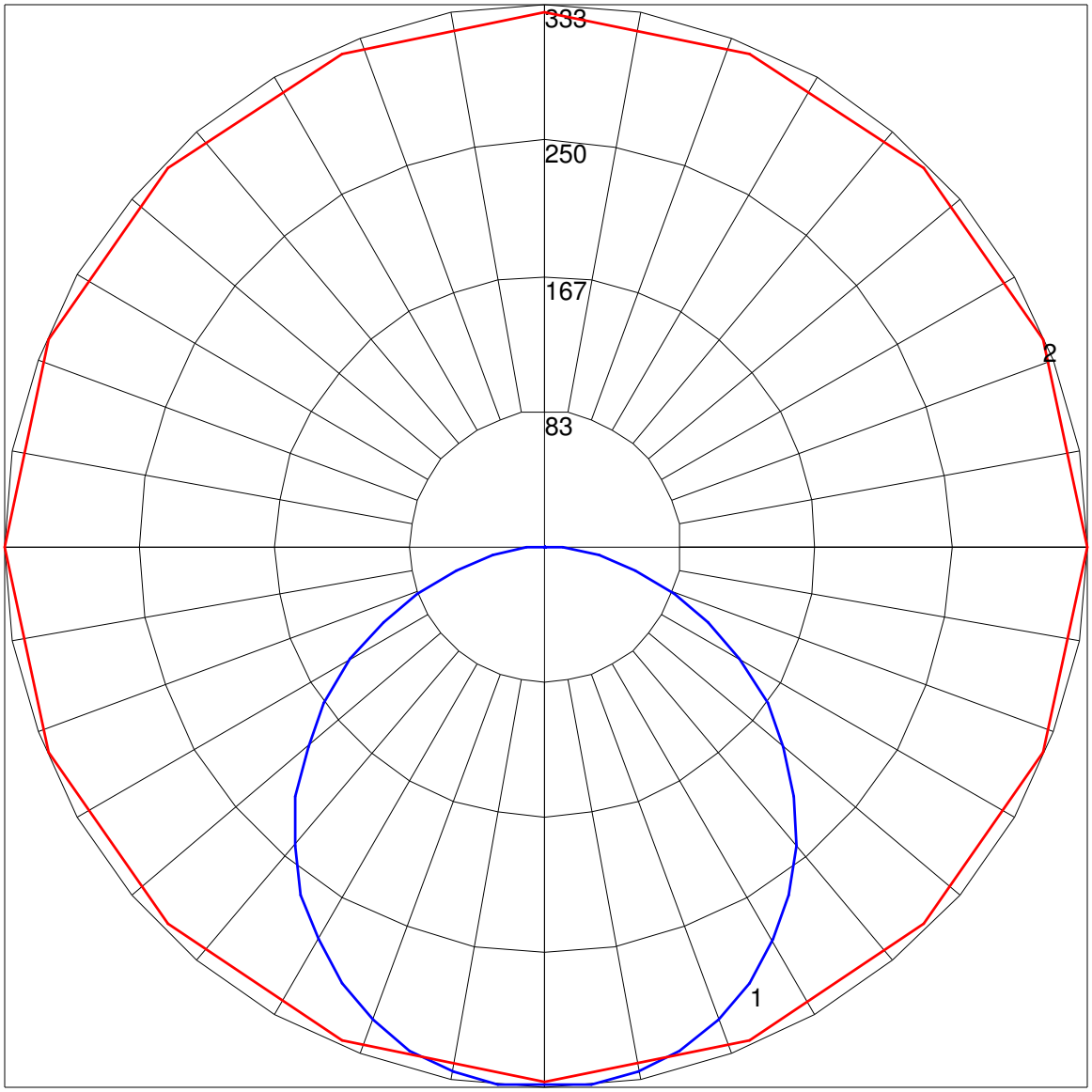
POLAR GRAPH



Maximum Candela = 333.427 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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