IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-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-6-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	2479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	26.5
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)	6.00 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	10257	8253	7833
55	9697	7389	7066
65	8655	6357	6288
75	7290	5240	5596
85	4052	4356	5039

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	780.682	780.682	780.682	780.682	780.682
5	783.237	779.404	774.293	773.016	774.293
10	771.738	767.905	762.794	762.794	765.349
15	755.128	751.295	746.184	747.462	747.462
20	729.574	725.740	719.352	724.463	725.740
25	697.631	693.798	692.520	696.353	698.908
30	658.022	658.022	658.022	663.133	661.855
35	615.857	615.857	615.857	620.968	624.801
40	564.749	566.026	567.304	576.248	581.359
45	509.807	513.640	517.473	527.695	531.528
50	449.755	453.588	462.532	477.864	485.531
55	392.258	393.535	410.146	422.923	434.422
60	325.817	332.205	355.204	379.480	387.147
65	259.376	269.597	296.429	323.261	334.761
70	198.045	208.267	241.488	274.708	284.930
75	135.437	153.325	190.379	227.433	242.765
80	79.218	98.384	148.215	185.268	201.878
85	26.832	62.608	108.606	145.659	162.269
90	0.000	34.498	80.496	113.716	126.493
95	0.000	17.888	54.942	88.162	99.662
100	0.000	8.944	38.331	65.163	76.663
105	0.000	5.111	26.832	47.275	57.497
110	0.000	3.833	17.888	34.498	40.887
115	0.000	2.555	11.499	24.277	30.665
120	0.000	0.000	6.389	15.333	19.166
125	0.000	0.000	5.111	10.222	12.777
130	0.000	0.000	0.000	6.389	7.666
135	0.000	0.000	0.000	0.000	5.111
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	285.04	N.A.	11.50
0-30	605.40	N.A.	24.40
0-40	991.96	N.A.	40.00
0-60	1760.33	N.A.	71.00
0-80	2257.13	N.A.	91.00
0-90	2372.11	N.A.	95.70
10-90	2298.34	N.A.	92.70
20-40	706.92	N.A.	28.50
20-50	1107.93	N.A.	44.70
40-70	1063.22	N.A.	42.90
60-80	496.80	N.A.	20.00
70-80	201.94	N.A.	8.10
80-90	114.98	N.A.	4.60
90-110	88.35	N.A.	3.60
90-120	101.77	N.A.	4.10
90-130	106.57	N.A.	4.30
90-150	107.33	N.A.	4.30
90-180	107.33	N.A.	4.30
110-180	18.98	N.A.	0.80
0-180	2479.44	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.77
10-20	211.27
20-30	320.36
30-40	386.56
40-50	401.01
50-60	367.36
60-70	294.85
70-80	201.94
80-90	114.98
90-100	58.98
100-110	29.37
110-120	13.41
120-130	4.80
130-140	0.76
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	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	32	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	17.9	19.5	18.3	19.9	20.3	19.6	21.2	20.0	21.6	22.0
	3H	19.4	20.8	19.8	21.2	21.7	21.9	23.4	22.3	23.8	24.2
	4H	19.8	21.2	20.3	21.6	22.1	23.0	24.4	23.5	24.8	25.3
	6H	20.1	21.4	20.6	21.8	22.3	24.2	25.5	24.7	25.9	26.4
	8H	20.2	21.4	20.7	21.9	22.4	24.8	26.0	25.3	26.5	27.0
	12H	20.2	21.4	20.7	21.8	22.4	25.5	26.6	25.9	27.1	27.6
4H	2H	18.7	20.0	19.1	20.5	20.9	20.0	21.4	20.5	21.8	22.3
	3H	20.4	21.5	20.8	22.0	22.5	22.5	23.7	23.0	24.2	24.7
	4H	20.9	22.0	21.4	22.5	23.0	23.8	24.9	24.3	25.4	25.9
	6H	21.3	22.3	21.9	22.8	23.3	25.2	26.1	25.7	26.6	27.2
	8H	21.4	22.3	22.0	22.8	23.4	25.9	26.7	26.4	27.3	27.8
	12H	21.5	22.3	22.0	22.8	23.4	26.6	27.4	27.2	28.0	28.5
8H	4H	21.5	22.4	22.0	22.9	23.4	24.0	24.9	24.5	25.4	26.0
	6H	22.0	22.8	22.6	23.3	23.9	25.5	26.2	26.0	26.8	27.4
	8H	22.2	22.9	22.7	23.4	24.0	26.3	27.0	26.9	27.6	28.1
	12H	22.3	22.9	22.9	23.4	24.1	27.3	27.9	27.8	28.4	29.1
12H	4H	21.6	22.4	22.2	23.0	23.5	24.0	24.8	24.6	25.4	25.9
	6H	22.2	22.9	22.8	23.5	24.1	25.5	26.2	26.1	26.7	27.4
	8H	22.5	23.1	23.1	23.6	24.3	26.4	27.0	27.0	27.6	28.2

Maximum UGR = 29.1

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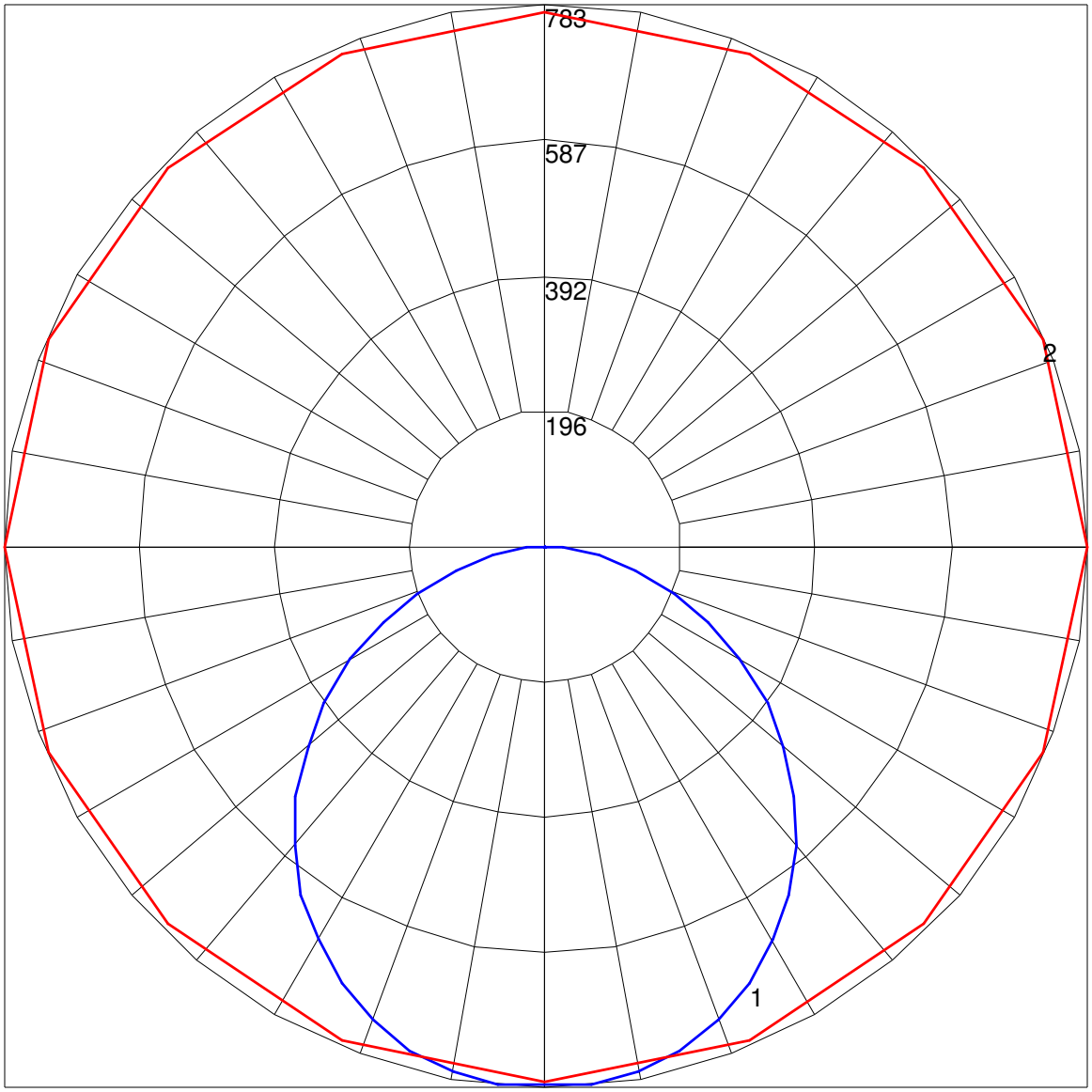
POLAR GRAPH



Maximum Candela = 783.237 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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