IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L10-835-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-L10-835-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	5822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	53.4
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)	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	24084	19378	18391
55	22769	17349	16590
65	20321	14926	14763
75	17117	12302	13140
85	9513	10226	11832

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1833	1833	1833	1833	1833
5	1839	1830	1818	1815	1818
10	1812	1803	1791	1791	1797
15	1773	1764	1752	1755	1755
20	1713	1704	1689	1701	1704
25	1638	1629	1626	1635	1641
30	1545	1545	1545	1557	1554
35	1446	1446	1446	1458	1467
40	1326	1329	1332	1353	1365
45	1197	1206	1215	1239	1248
50	1056	1065	1086	1122	1140
55	921	924	963	993	1020
60	765	780	834	891	909
65	609	633	696	759	786
70	465	489	567	645	669
75	318	360	447	534	570
80	186	231	348	435	474
85	63	147	255	342	381
90	0	81	189	267	297
95	0	42	129	207	234
100	0	21	90	153	180
105	0	12	63	111	135
110	0	9	42	81	96
115	0	6	27	57	72
120	0	0	15	36	45
125	0	0	12	24	30
130	0	0	0	15	18
135	0	0	0	0	12
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	669.26	N.A.	11.50
0-30	1421.45	N.A.	24.40
0-40	2329.07	N.A.	40.00
0-60	4133.16	N.A.	71.00
0-80	5299.61	N.A.	91.00
0-90	5569.58	N.A.	95.70
10-90	5396.37	N.A.	92.70
20-40	1659.81	N.A.	28.50
20-50	2601.36	N.A.	44.70
40-70	2496.38	N.A.	42.90
60-80	1166.45	N.A.	20.00
70-80	474.16	N.A.	8.10
80-90	269.97	N.A.	4.60
90-110	207.45	N.A.	3.60
90-120	238.94	N.A.	4.10
90-130	250.21	N.A.	4.30
90-150	252.01	N.A.	4.30
90-180	252.01	N.A.	4.30
110-180	44.56	N.A.	0.80
0-180	5821.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.21
10-20	496.05
20-30	752.19
30-40	907.62
40-50	941.55
50-60	862.54
60-70	692.30
70-80	474.16
80-90	269.97
90-100	138.48
100-110	68.97
110-120	31.50
120-130	11.27
130-140	1.79
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	20.8	22.4	21.2	22.8	23.2	22.5	24.1	22.9	24.5	24.9
	3H	22.3	23.7	22.7	24.1	24.6	24.8	26.3	25.2	26.7	27.1
	4H	22.7	24.1	23.2	24.5	25.0	25.9	27.3	26.4	27.7	28.2
	6H	23.0	24.3	23.5	24.7	25.2	27.1	28.4	27.6	28.8	29.3
	8H	23.1	24.3	23.6	24.8	25.3	27.7	28.9	28.2	29.4	29.9
	12H	23.1	24.3	23.6	24.7	25.3	28.4	29.5	28.8	30.0	30.5
4H	2H	21.6	22.9	22.0	23.4	23.8	22.9	24.3	23.4	24.7	25.2
	3H	23.3	24.4	23.7	24.9	25.4	25.4	26.6	25.9	27.1	27.6
	4H	23.8	24.9	24.3	25.4	25.9	26.7	27.8	27.2	28.3	28.8
	6H	24.2	25.2	24.7	25.7	26.2	28.1	29.0	28.6	29.5	30.1
	8H	24.3	25.2	24.8	25.7	26.3	28.8	29.6	29.3	30.1	30.7
	12H	24.4	25.2	24.9	25.7	26.3	29.5	30.3	30.1	30.9	31.4
8H	4H	24.4	25.3	24.9	25.8	26.3	26.9	27.8	27.4	28.3	28.9
	6H	24.9	25.7	25.5	26.2	26.8	28.4	29.1	28.9	29.7	30.3
	8H	25.1	25.8	25.6	26.3	26.9	29.2	29.9	29.8	30.5	31.0
	12H	25.2	25.8	25.8	26.3	27.0	30.2	30.8	30.7	31.3	32.0
12H	4H	24.5	25.3	25.1	25.9	26.4	26.9	27.7	27.5	28.3	28.8
	6H	25.1	25.8	25.7	26.4	27.0	28.4	29.1	29.0	29.6	30.3
	8H	25.4	26.0	26.0	26.5	27.2	29.3	29.9	29.9	30.5	31.1

Maximum UGR = 32.0

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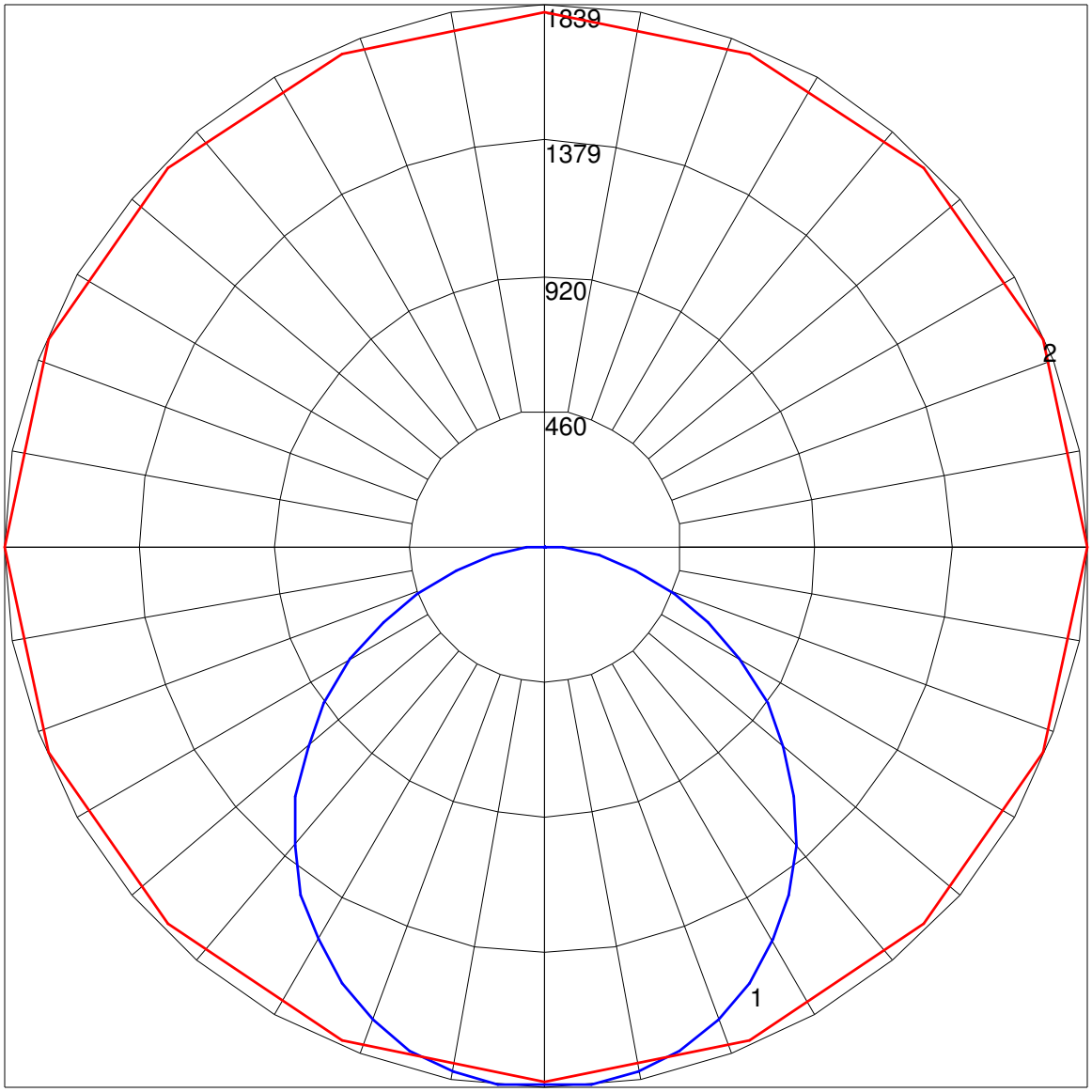
POLAR GRAPH



Maximum Candela = 1839 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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