IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-835-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-L5-835-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	2987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	12358	9944	9437
55	11683	8902	8513
65	10427	7659	7576
75	8783	6313	6742
85	4881	5248	6071

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	940.581	940.581	940.581	940.581	940.581
5	943.660	939.042	932.884	931.345	932.884
10	929.805	925.187	919.030	919.030	922.108
15	909.793	905.175	899.017	900.557	900.557
20	879.005	874.387	866.690	872.847	874.387
25	840.519	835.901	834.362	838.980	842.059
30	792.798	792.798	792.798	798.955	797.416
35	741.997	741.997	741.997	748.155	752.773
40	680.421	681.960	683.499	694.275	700.433
45	614.226	618.844	623.462	635.778	640.396
50	541.873	546.492	557.267	575.740	584.977
55	472.600	474.139	494.152	509.546	523.400
60	392.550	400.247	427.957	457.206	466.442
65	312.501	324.816	357.144	389.471	403.326
70	238.609	250.924	290.949	330.974	343.289
75	163.178	184.730	229.373	274.016	292.488
80	95.444	118.535	178.572	223.215	243.227
85	32.328	75.431	130.850	175.493	195.505
90	0.000	41.564	96.983	137.008	152.402
95	0.000	21.552	66.195	106.219	120.074
100	0.000	10.776	46.182	78.510	92.365
105	0.000	6.158	32.328	56.958	69.274
110	0.000	4.618	21.552	41.564	49.261
115	0.000	3.079	13.855	29.249	36.946
120	0.000	0.000	7.697	18.473	23.091
125	0.000	0.000	6.158	12.315	15.394
130	0.000	0.000	0.000	7.697	9.236
135	0.000	0.000	0.000	0.000	6.158
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	343.42	N.A.	11.50
0-30	729.40	N.A.	24.40
0-40	1195.14	N.A.	40.00
0-60	2120.88	N.A.	71.00
0-80	2719.43	N.A.	91.00
0-90	2857.96	N.A.	95.70
10-90	2769.08	N.A.	92.70
20-40	851.71	N.A.	28.50
20-50	1334.86	N.A.	44.70
40-70	1280.99	N.A.	42.90
60-80	598.55	N.A.	20.00
70-80	243.31	N.A.	8.10
80-90	138.53	N.A.	4.60
90-110	106.45	N.A.	3.60
90-120	122.61	N.A.	4.10
90-130	128.39	N.A.	4.30
90-150	129.31	N.A.	4.30
90-180	129.31	N.A.	4.30
110-180	22.87	N.A.	0.80
0-180	2987.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.88
10-20	254.54
20-30	385.98
30-40	465.74
40-50	483.14
50-60	442.60
60-70	355.24
70-80	243.31
80-90	138.53
90-100	71.06
100-110	35.39
110-120	16.16
120-130	5.78
130-140	0.92
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	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	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	24.0	22.9	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.4	22.9	24.8	26.1	25.3	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.6
	12H	20.8	22.0	21.3	22.4	23.0	26.1	27.2	26.5	27.7	28.2
4H	2H	19.3	20.6	19.7	21.1	21.5	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.1	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	26.0	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.8	26.7	26.3	27.2	27.8
	8H	22.0	22.9	22.5	23.4	24.0	26.5	27.3	27.0	27.9	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.2	28.0	27.8	28.6	29.1
8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.6
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.8	26.6	27.4	28.0
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.5	28.2	28.7
	12H	22.9	23.5	23.5	24.0	24.7	27.9	28.5	28.4	29.0	29.7
12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.2	26.0	26.5
	6H	22.8	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.3	28.0
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.6	28.2	28.8

Maximum UGR = 29.7

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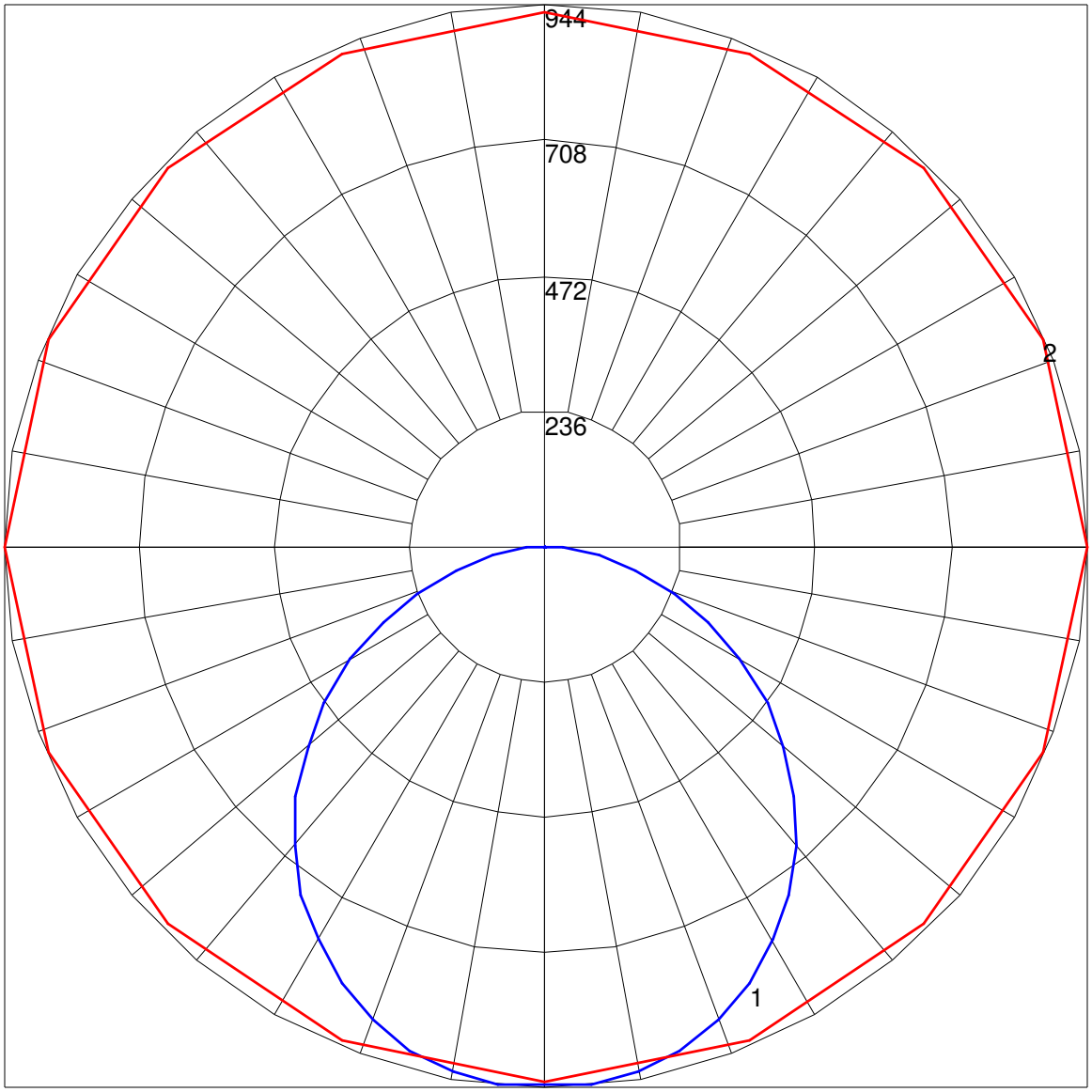
POLAR GRAPH



Maximum Candela = 943.66 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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