IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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-8-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	7762
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	70.3
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)	8.00 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	24131	19399	18391
55	22832	17374	16590
65	20405	14954	14763
75	17239	12334	13140
85	9712	10266	11832

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2444	2444	2444	2444	2444
5	2452	2440	2424	2420	2424
10	2416	2404	2388	2388	2396
15	2364	2352	2336	2340	2340
20	2284	2272	2252	2268	2272
25	2184	2172	2168	2180	2188
30	2060	2060	2060	2076	2072
35	1928	1928	1928	1944	1956
40	1768	1772	1776	1804	1820
45	1596	1608	1620	1652	1664
50	1408	1420	1448	1496	1520
55	1228	1232	1284	1324	1360
60	1020	1040	1112	1188	1212
65	812	844	928	1012	1048
70	620	652	756	860	892
75	424	480	596	712	760
80	248	308	464	580	632
85	84	196	340	456	508
90	0	108	252	356	396
95	0	56	172	276	312
100	0	28	120	204	240
105	0	16	84	148	180
110	0	12	56	108	128
115	0	8	36	76	96
120	0	0	20	48	60
125	0	0	16	32	40
130	0	0	0	20	24
135	0	0	0	0	16
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	892.35	N.A.	11.50
0-30	1895.27	N.A.	24.40
0-40	3105.43	N.A.	40.00
0-60	5510.88	N.A.	71.00
0-80	7066.15	N.A.	91.00
0-90	7426.11	N.A.	95.70
10-90	7195.16	N.A.	92.70
20-40	2213.09	N.A.	28.50
20-50	3468.48	N.A.	44.70
40-70	3328.51	N.A.	42.90
60-80	1555.27	N.A.	20.00
70-80	632.21	N.A.	8.10
80-90	359.96	N.A.	4.60
90-110	276.59	N.A.	3.60
90-120	318.59	N.A.	4.10
90-130	333.62	N.A.	4.30
90-150	336.01	N.A.	4.30
90-180	336.01	N.A.	4.30
110-180	59.41	N.A.	0.80
0-180	7762.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.95
10-20	661.40
20-30	1002.92
30-40	1210.16
40-50	1255.4
50-60	1150.05
60-70	923.06
70-80	632.21
80-90	359.96
90-100	184.64
100-110	91.95
110-120	41.99
120-130	15.03
130-140	2.39
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	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	25.3	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	29.6	28.9	30.0	30.5
4H	2H	21.6	23.0	22.0	23.4	23.9	22.9	24.3	23.4	24.7	25.2
	3H	23.3	24.4	23.7	24.9	25.4	25.5	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	24.8	25.7	26.2	28.1	29.0	28.6	29.5	30.1
	8H	24.3	25.2	24.9	25.7	26.3	28.8	29.7	29.3	30.2	30.7
	12H	24.4	25.2	24.9	25.7	26.3	29.6	30.4	30.1	30.9	31.5
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	29.2	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	31.1
	12H	25.2	25.8	25.8	26.4	27.0	30.2	30.8	30.8	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	25.2	25.8	25.7	26.4	27.0	28.4	29.1	29.0	29.7	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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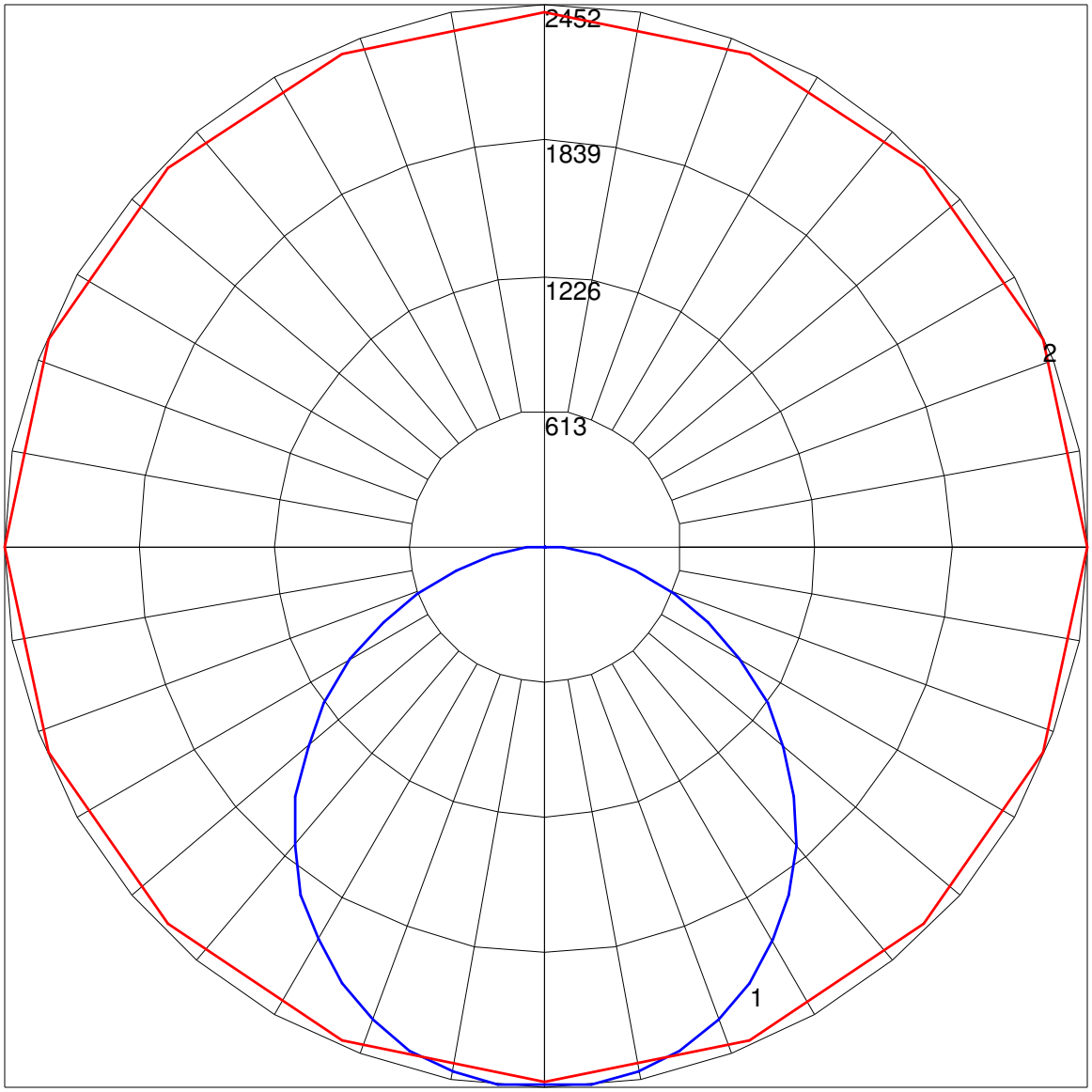
POLAR GRAPH



Maximum Candela = 2452 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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