IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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-8-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	4222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	35.2
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	13125	10552	10004
55	12419	9450	9024
65	11099	8134	8030
75	9377	6709	7147
85	5283	5584	6436

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1329.355	1329.355	1329.355	1329.355	1329.355
5	1333.706	1327.179	1318.476	1316.300	1318.476
10	1314.125	1307.598	1298.895	1298.895	1303.246
15	1285.841	1279.313	1270.611	1272.786	1272.786
20	1242.326	1235.799	1224.921	1233.624	1235.799
25	1187.934	1181.407	1179.231	1185.758	1190.110
30	1120.487	1120.487	1120.487	1129.190	1127.014
35	1048.689	1048.689	1048.689	1057.392	1063.919
40	961.661	963.836	966.012	981.242	989.945
45	868.106	874.633	881.160	898.565	905.092
50	765.847	772.375	787.605	813.713	826.767
55	667.941	670.117	698.401	720.158	739.739
60	554.804	565.683	604.845	646.184	659.238
65	441.668	459.073	504.763	550.453	570.034
70	337.234	354.640	411.208	467.776	485.182
75	230.625	261.084	324.180	387.275	413.384
80	134.894	167.529	252.382	315.477	343.761
85	45.690	106.609	184.935	248.030	276.314
90	0.000	58.744	137.069	193.638	215.395
95	0.000	30.460	93.555	150.124	169.705
100	0.000	15.230	65.271	110.961	130.542
105	0.000	8.703	45.690	80.501	97.907
110	0.000	6.527	30.460	58.744	69.622
115	0.000	4.351	19.581	41.338	52.217
120	0.000	0.000	10.879	26.108	32.636
125	0.000	0.000	8.703	17.406	21.757
130	0.000	0.000	0.000	10.879	13.054
135	0.000	0.000	0.000	0.000	8.703
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	485.37	N.A.	11.50
0-30	1030.89	N.A.	24.40
0-40	1689.12	N.A.	40.00
0-60	2997.51	N.A.	71.00
0-80	3843.46	N.A.	91.00
0-90	4039.25	N.A.	95.70
10-90	3913.63	N.A.	92.70
20-40	1203.75	N.A.	28.50
20-50	1886.6	N.A.	44.70
40-70	1810.46	N.A.	42.90
60-80	845.95	N.A.	20.00
70-80	343.87	N.A.	8.10
80-90	195.79	N.A.	4.60
90-110	150.45	N.A.	3.60
90-120	173.29	N.A.	4.10
90-130	181.46	N.A.	4.30
90-150	182.76	N.A.	4.30
90-180	182.76	N.A.	4.30
110-180	32.32	N.A.	0.80
0-180	4222.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.62
10-20	359.75
20-30	545.52
30-40	658.24
40-50	682.84
50-60	625.54
60-70	502.08
70-80	343.87
80-90	195.79
90-100	100.43
100-110	50.02
110-120	22.84
120-130	8.17
130-140	1.30
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	18.7	20.3	19.1	20.7	21.1	20.4	22.0	20.8	22.4	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.7	24.2	23.2	24.6	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.8	25.2	24.3	25.6	26.1
	6H	20.9	22.2	21.4	22.6	23.1	25.0	26.3	25.5	26.7	27.2
	8H	21.0	22.2	21.5	22.7	23.2	25.6	26.8	26.1	27.3	27.8
	12H	21.0	22.2	21.5	22.6	23.2	26.3	27.5	26.8	27.9	28.4
4H	2H	19.5	20.9	19.9	21.3	21.7	20.8	22.2	21.3	22.6	23.1
	3H	21.2	22.3	21.6	22.8	23.3	23.4	24.5	23.8	25.0	25.5
	4H	21.7	22.8	22.2	23.3	23.8	24.6	25.7	25.1	26.2	26.7
	6H	22.1	23.1	22.7	23.6	24.1	26.0	26.9	26.5	27.4	28.0
	8H	22.2	23.1	22.8	23.6	24.2	26.7	27.6	27.2	28.1	28.6
	12H	22.3	23.1	22.8	23.6	24.2	27.5	28.3	28.0	28.8	29.4
8H	4H	22.3	23.2	22.8	23.7	24.2	24.8	25.7	25.3	26.2	26.8
	6H	22.8	23.6	23.4	24.1	24.7	26.3	27.1	26.8	27.6	28.2
	8H	23.0	23.7	23.5	24.2	24.8	27.1	27.8	27.7	28.4	29.0
	12H	23.1	23.7	23.7	24.3	24.9	28.1	28.7	28.7	29.2	29.9
12H	4H	22.4	23.2	23.0	23.8	24.3	24.8	25.6	25.4	26.2	26.7
	6H	23.1	23.7	23.6	24.3	24.9	26.3	27.0	26.9	27.6	28.2
	8H	23.3	23.9	23.9	24.4	25.1	27.2	27.8	27.8	28.4	29.0

Maximum UGR = 29.9

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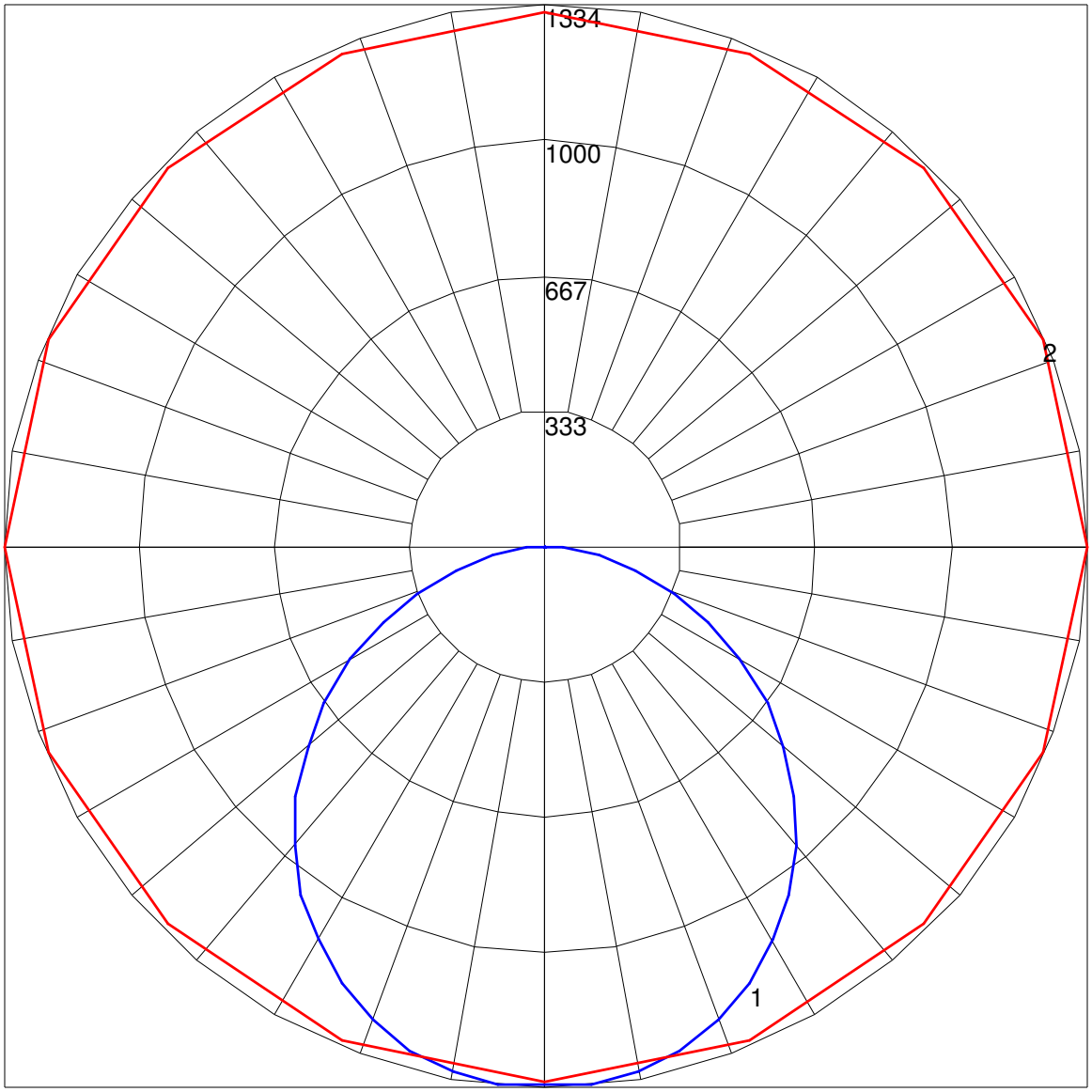
POLAR GRAPH



Maximum Candela = 1333.706 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.)