IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-840-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-L5-840-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	4103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	12754	10253	9720
55	12067	9182	8768
65	10785	7904	7803
75	9111	6519	6945
85	5133	5426	6253

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1291.732	1291.732	1291.732	1291.732	1291.732
5	1295.960	1289.617	1281.161	1279.047	1281.161
10	1276.933	1270.590	1262.134	1262.134	1266.362
15	1249.449	1243.107	1234.650	1236.764	1236.764
20	1207.166	1200.824	1190.253	1198.710	1200.824
25	1154.313	1147.971	1145.857	1152.199	1156.427
30	1088.775	1088.775	1088.775	1097.232	1095.118
35	1019.009	1019.009	1019.009	1027.466	1033.808
40	934.444	936.558	938.672	953.471	961.928
45	843.537	849.879	856.221	873.134	879.477
50	744.173	750.515	765.314	790.683	803.368
55	649.037	651.151	678.635	699.776	718.803
60	539.102	549.673	587.727	627.896	640.580
65	429.168	446.081	490.477	534.874	553.901
70	327.690	344.603	399.570	454.537	471.450
75	224.097	253.695	315.005	376.315	401.684
80	131.076	162.788	245.239	306.548	334.032
85	44.397	103.592	179.701	241.010	268.494
90	0.000	57.081	133.190	188.157	209.299
95	0.000	29.598	90.907	145.875	164.902
100	0.000	14.799	63.424	107.820	126.848
105	0.000	8.457	44.397	78.223	95.136
110	0.000	6.342	29.598	57.081	67.652
115	0.000	4.228	19.027	40.168	50.739
120	0.000	0.000	10.571	25.370	31.712
125	0.000	0.000	8.457	16.913	21.141
130	0.000	0.000	0.000	10.571	12.685
135	0.000	0.000	0.000	0.000	8.457
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	471.63	N.A.	11.50
0-30	1001.71	N.A.	24.40
0-40	1641.32	N.A.	40.00
0-60	2912.68	N.A.	71.00
0-80	3734.69	N.A.	91.00
0-90	3924.93	N.A.	95.70
10-90	3802.87	N.A.	92.70
20-40	1169.69	N.A.	28.50
20-50	1833.2	N.A.	44.70
40-70	1759.22	N.A.	42.90
60-80	822.01	N.A.	20.00
70-80	334.14	N.A.	8.10
80-90	190.25	N.A.	4.60
90-110	146.19	N.A.	3.60
90-120	168.38	N.A.	4.10
90-130	176.33	N.A.	4.30
90-150	177.59	N.A.	4.30
90-180	177.59	N.A.	4.30
110-180	31.40	N.A.	0.80
0-180	4102.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.06
10-20	349.57
20-30	530.08
30-40	639.61
40-50	663.52
50-60	607.84
60-70	487.87
70-80	334.14
80-90	190.25
90-100	97.59
100-110	48.60
110-120	22.19
120-130	7.94
130-140	1.26
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	18.6	20.2	19.0	20.6	21.0	20.3	21.9	20.7	22.3	22.7
	3H	20.1	21.5	20.5	21.9	22.4	22.6	24.1	23.1	24.5	24.9
	4H	20.5	21.9	21.0	22.3	22.8	23.7	25.1	24.2	25.5	26.0
	6H	20.8	22.1	21.3	22.5	23.0	24.9	26.2	25.4	26.6	27.1
	8H	20.9	22.1	21.4	22.6	23.1	25.5	26.7	26.0	27.2	27.7
	12H	20.9	22.1	21.4	22.5	23.1	26.2	27.4	26.7	27.8	28.3
4H	2H	19.4	20.8	19.8	21.2	21.7	20.7	22.1	21.2	22.5	23.0
	3H	21.1	22.2	21.5	22.7	23.2	23.3	24.4	23.7	24.9	25.4
	4H	21.6	22.7	22.1	23.2	23.7	24.5	25.6	25.0	26.1	26.6
	6H	22.0	23.0	22.6	23.5	24.0	25.9	26.8	26.4	27.3	27.9
	8H	22.1	23.0	22.7	23.5	24.1	26.6	27.5	27.1	28.0	28.5
	12H	22.2	23.0	22.7	23.5	24.1	27.4	28.2	27.9	28.7	29.3
8H	4H	22.2	23.1	22.7	23.6	24.1	24.7	25.6	25.2	26.1	26.7
	6H	22.7	23.5	23.3	24.0	24.6	26.2	27.0	26.7	27.5	28.1
	8H	22.9	23.6	23.4	24.1	24.7	27.0	27.7	27.6	28.3	28.9
	12H	23.0	23.6	23.6	24.2	24.8	28.0	28.6	28.6	29.1	29.8
12H	4H	22.3	23.1	22.9	23.7	24.2	24.7	25.5	25.3	26.1	26.6
	6H	23.0	23.6	23.5	24.2	24.8	26.2	26.9	26.8	27.5	28.1
	8H	23.2	23.8	23.8	24.3	25.0	27.1	27.7	27.7	28.3	28.9

Maximum UGR = 29.8

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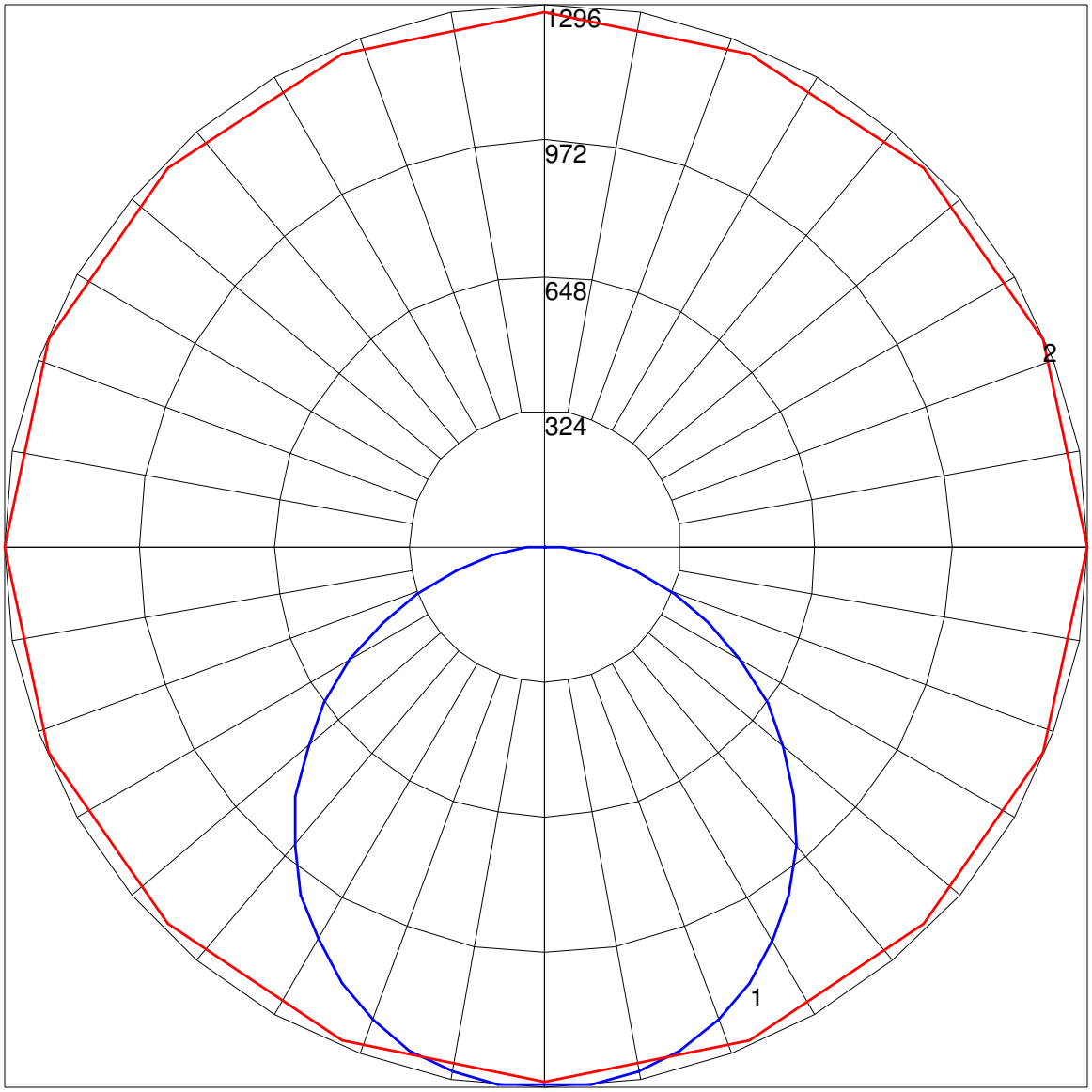
POLAR GRAPH



Maximum Candela = 1295.96 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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