IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-940-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-L5-940-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	3425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	10649	8561	8116
55	10076	7667	7321
65	9005	6599	6515
75	7608	5443	5798
85	4286	4530	5221

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1078.533	1078.533	1078.533	1078.533	1078.533
5	1082.063	1076.768	1069.707	1067.942	1069.707
10	1066.177	1060.881	1053.820	1053.820	1057.351
15	1043.229	1037.933	1030.873	1032.638	1032.638
20	1007.925	1002.630	993.804	1000.864	1002.630
25	963.795	958.500	956.735	962.030	965.561
30	909.074	909.074	909.074	916.135	914.370
35	850.823	850.823	850.823	857.884	863.179
40	780.215	781.980	783.746	796.102	803.163
45	704.312	709.608	714.903	729.025	734.320
50	621.348	626.644	639.000	660.182	670.773
55	541.914	543.679	566.627	584.279	600.166
60	450.124	458.950	490.724	524.262	534.853
65	358.334	372.456	409.525	446.594	462.481
70	273.605	287.726	333.621	379.516	393.638
75	187.110	211.823	263.014	314.204	335.387
80	109.442	135.920	204.762	255.953	278.900
85	37.069	86.494	150.041	201.232	224.180
90	0.000	47.660	111.207	157.102	174.754
95	0.000	24.713	75.903	121.798	137.685
100	0.000	12.356	52.956	90.025	105.912
105	0.000	7.061	37.069	65.312	79.434
110	0.000	5.296	24.713	47.660	56.486
115	0.000	3.530	15.887	33.539	42.365
120	0.000	0.000	8.826	21.182	26.478
125	0.000	0.000	7.061	14.122	17.652
130	0.000	0.000	0.000	8.826	10.591
135	0.000	0.000	0.000	0.000	7.061
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	393.79	N.A.	11.50
0-30	836.38	N.A.	24.40
0-40	1370.42	N.A.	40.00
0-60	2431.94	N.A.	71.00
0-80	3118.28	N.A.	91.00
0-90	3277.13	N.A.	95.70
10-90	3175.21	N.A.	92.70
20-40	976.63	N.A.	28.50
20-50	1530.64	N.A.	44.70
40-70	1468.87	N.A.	42.90
60-80	686.34	N.A.	20.00
70-80	278.99	N.A.	8.10
80-90	158.85	N.A.	4.60
90-110	122.06	N.A.	3.60
90-120	140.59	N.A.	4.10
90-130	147.22	N.A.	4.30
90-150	148.28	N.A.	4.30
90-180	148.28	N.A.	4.30
110-180	26.22	N.A.	0.80
0-180	3425.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.92
10-20	291.87
20-30	442.59
30-40	534.04
40-50	554.01
50-60	507.52
60-70	407.35
70-80	278.99
80-90	158.85
90-100	81.48
100-110	40.58
110-120	18.53
120-130	6.63
130-140	1.06
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	18.0	19.6	18.4	20.0	20.4	19.7	21.3	20.1	21.7	22.1
	3H	19.5	20.9	19.9	21.3	21.8	22.0	23.5	22.5	23.9	24.3
	4H	19.9	21.3	20.4	21.7	22.2	23.1	24.5	23.6	24.9	25.4
	6H	20.2	21.5	20.7	21.9	22.4	24.3	25.6	24.8	26.0	26.5
	8H	20.3	21.5	20.8	22.0	22.5	24.9	26.1	25.4	26.6	27.1
	12H	20.3	21.5	20.8	21.9	22.5	25.6	26.8	26.1	27.2	27.7
4H	2H	18.8	20.2	19.2	20.6	21.1	20.1	21.5	20.6	21.9	22.4
	3H	20.5	21.6	20.9	22.1	22.6	22.7	23.8	23.1	24.3	24.8
	4H	21.0	22.1	21.5	22.6	23.1	23.9	25.0	24.4	25.5	26.0
	6H	21.4	22.4	22.0	22.9	23.4	25.3	26.2	25.8	26.7	27.3
	8H	21.5	22.4	22.1	22.9	23.5	26.0	26.9	26.5	27.4	27.9
	12H	21.6	22.4	22.1	22.9	23.5	26.8	27.6	27.3	28.1	28.7
8H	4H	21.6	22.5	22.1	23.0	23.5	24.1	25.0	24.6	25.5	26.1
	6H	22.1	22.9	22.7	23.4	24.0	25.6	26.4	26.1	26.9	27.5
	8H	22.3	23.0	22.8	23.5	24.1	26.4	27.1	27.0	27.7	28.3
	12H	22.4	23.0	23.0	23.6	24.2	27.4	28.0	28.0	28.5	29.2
12H	4H	21.7	22.5	22.3	23.1	23.6	24.1	24.9	24.7	25.5	26.0
	6H	22.4	23.0	22.9	23.6	24.2	25.6	26.3	26.2	26.9	27.5
	8H	22.6	23.2	23.2	23.7	24.4	26.5	27.1	27.1	27.7	28.3

Maximum UGR = 29.2

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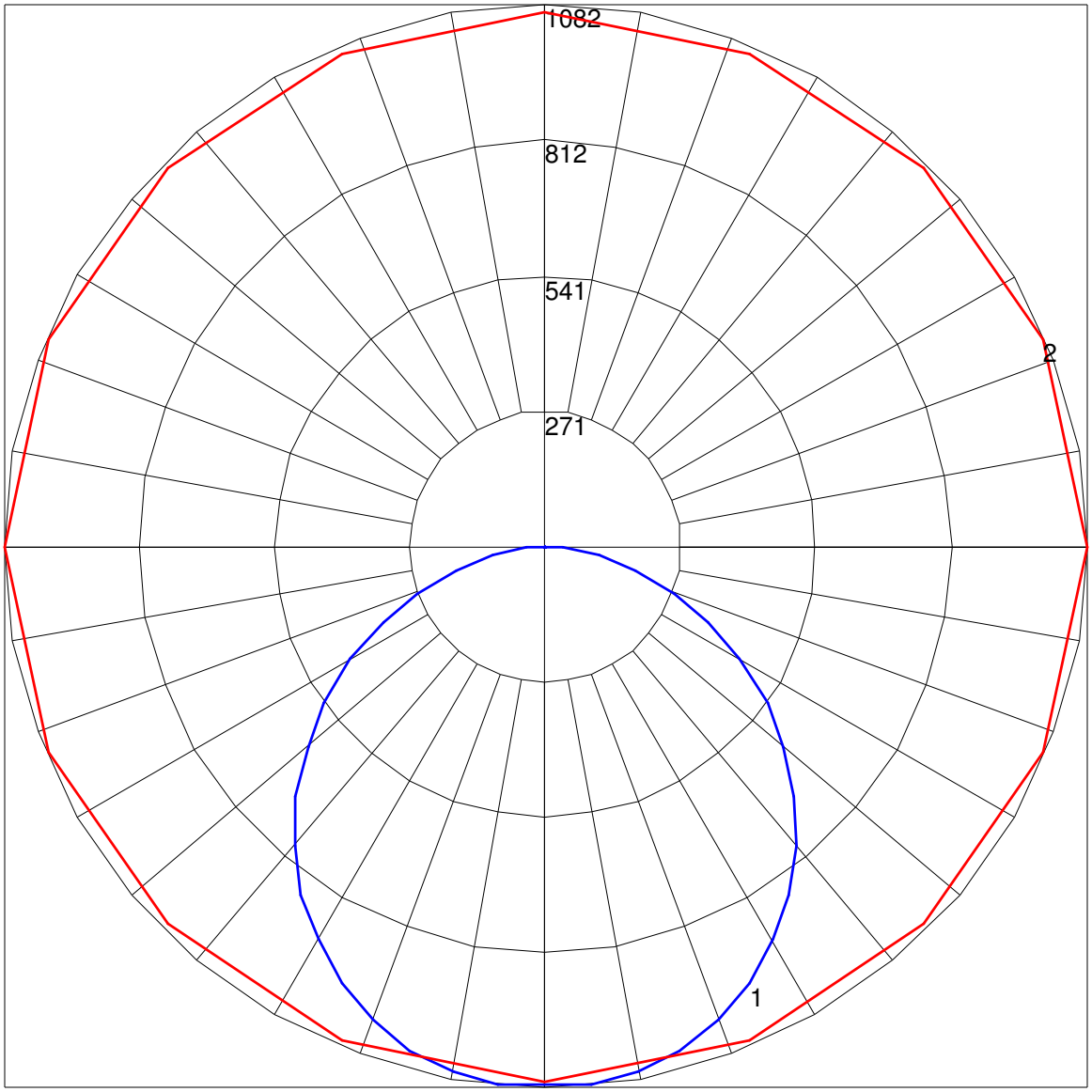
POLAR GRAPH



Maximum Candela = 1082.063 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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