IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-930-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-L5-930-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	3266
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	10153	8163	7739
55	9607	7310	6981
65	8586	6292	6212
75	7254	5190	5529
85	4087	4320	4978

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1028.369	1028.369	1028.369	1028.369	1028.369
5	1031.735	1026.686	1019.953	1018.270	1019.953
10	1016.587	1011.538	1004.805	1004.805	1008.172
15	994.707	989.658	982.925	984.608	984.608
20	961.045	955.996	947.580	954.313	955.996
25	918.968	913.918	912.235	917.285	920.651
30	866.792	866.792	866.792	873.524	871.841
35	811.250	811.250	811.250	817.982	823.032
40	743.926	745.609	747.292	759.074	765.806
45	671.553	676.603	681.652	695.117	700.166
50	592.448	597.497	609.279	629.476	639.575
55	516.709	518.392	540.272	557.103	572.251
60	429.188	437.604	467.899	499.878	509.977
65	341.667	355.132	390.477	425.822	440.970
70	260.879	274.344	318.104	361.865	375.329
75	178.408	201.971	250.781	299.590	319.787
80	104.352	129.598	195.239	244.048	265.928
85	35.345	82.471	143.063	191.872	213.753
90	0.000	45.443	106.035	149.795	166.626
95	0.000	23.563	72.373	116.133	131.281
100	0.000	11.782	50.493	85.838	100.985
105	0.000	6.732	35.345	62.274	75.739
110	0.000	5.049	23.563	45.443	53.859
115	0.000	3.366	15.148	31.979	40.394
120	0.000	0.000	8.415	20.197	25.246
125	0.000	0.000	6.732	13.465	16.831
130	0.000	0.000	0.000	8.415	10.099
135	0.000	0.000	0.000	0.000	6.732
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	375.48	N.A.	11.50
0-30	797.48	N.A.	24.40
0-40	1306.68	N.A.	40.00
0-60	2318.83	N.A.	71.00
0-80	2973.24	N.A.	91.00
0-90	3124.7	N.A.	95.70
10-90	3027.53	N.A.	92.70
20-40	931.21	N.A.	28.50
20-50	1459.44	N.A.	44.70
40-70	1400.55	N.A.	42.90
60-80	654.42	N.A.	20.00
70-80	266.02	N.A.	8.10
80-90	151.46	N.A.	4.60
90-110	116.38	N.A.	3.60
90-120	134.05	N.A.	4.10
90-130	140.38	N.A.	4.30
90-150	141.38	N.A.	4.30
90-180	141.38	N.A.	4.30
110-180	25.00	N.A.	0.80
0-180	3266.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.18
10-20	278.30
20-30	422.00
30-40	509.20
40-50	528.24
50-60	483.91
60-70	388.40
70-80	266.02
80-90	151.46
90-100	77.69
100-110	38.69
110-120	17.67
120-130	6.32
130-140	1.01
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	17.8	19.4	18.2	19.8	20.2	19.5	21.1	19.9	21.5	21.9
	3H	19.3	20.7	19.7	21.1	21.6	21.8	23.3	22.3	23.7	24.1
	4H	19.7	21.1	20.2	21.5	22.0	22.9	24.3	23.4	24.7	25.2
	6H	20.0	21.3	20.5	21.7	22.2	24.1	25.4	24.6	25.8	26.3
	8H	20.1	21.3	20.6	21.8	22.3	24.7	25.9	25.2	26.4	26.9
	12H	20.1	21.3	20.6	21.7	22.3	25.4	26.6	25.9	27.0	27.5
4H	2H	18.6	20.0	19.0	20.4	20.9	19.9	21.3	20.4	21.7	22.2
	3H	20.3	21.4	20.7	21.9	22.4	22.5	23.6	22.9	24.1	24.6
	4H	20.8	21.9	21.3	22.4	22.9	23.7	24.8	24.2	25.3	25.8
	6H	21.2	22.2	21.8	22.7	23.2	25.1	26.0	25.6	26.5	27.1
	8H	21.3	22.2	21.9	22.7	23.3	25.8	26.7	26.3	27.2	27.7
	12H	21.4	22.2	21.9	22.7	23.3	26.6	27.4	27.1	27.9	28.5
8H	4H	21.4	22.3	21.9	22.8	23.3	23.9	24.8	24.4	25.3	25.9
	6H	21.9	22.7	22.5	23.2	23.8	25.4	26.2	25.9	26.7	27.3
	8H	22.1	22.8	22.6	23.3	23.9	26.2	26.9	26.8	27.5	28.1
	12H	22.2	22.8	22.8	23.4	24.0	27.2	27.8	27.8	28.3	29.0
12H	4H	21.5	22.3	22.1	22.9	23.4	23.9	24.7	24.5	25.3	25.8
	6H	22.2	22.8	22.7	23.4	24.0	25.4	26.1	26.0	26.7	27.3
	8H	22.4	23.0	23.0	23.5	24.2	26.3	26.9	26.9	27.5	28.1

Maximum UGR = 29.0

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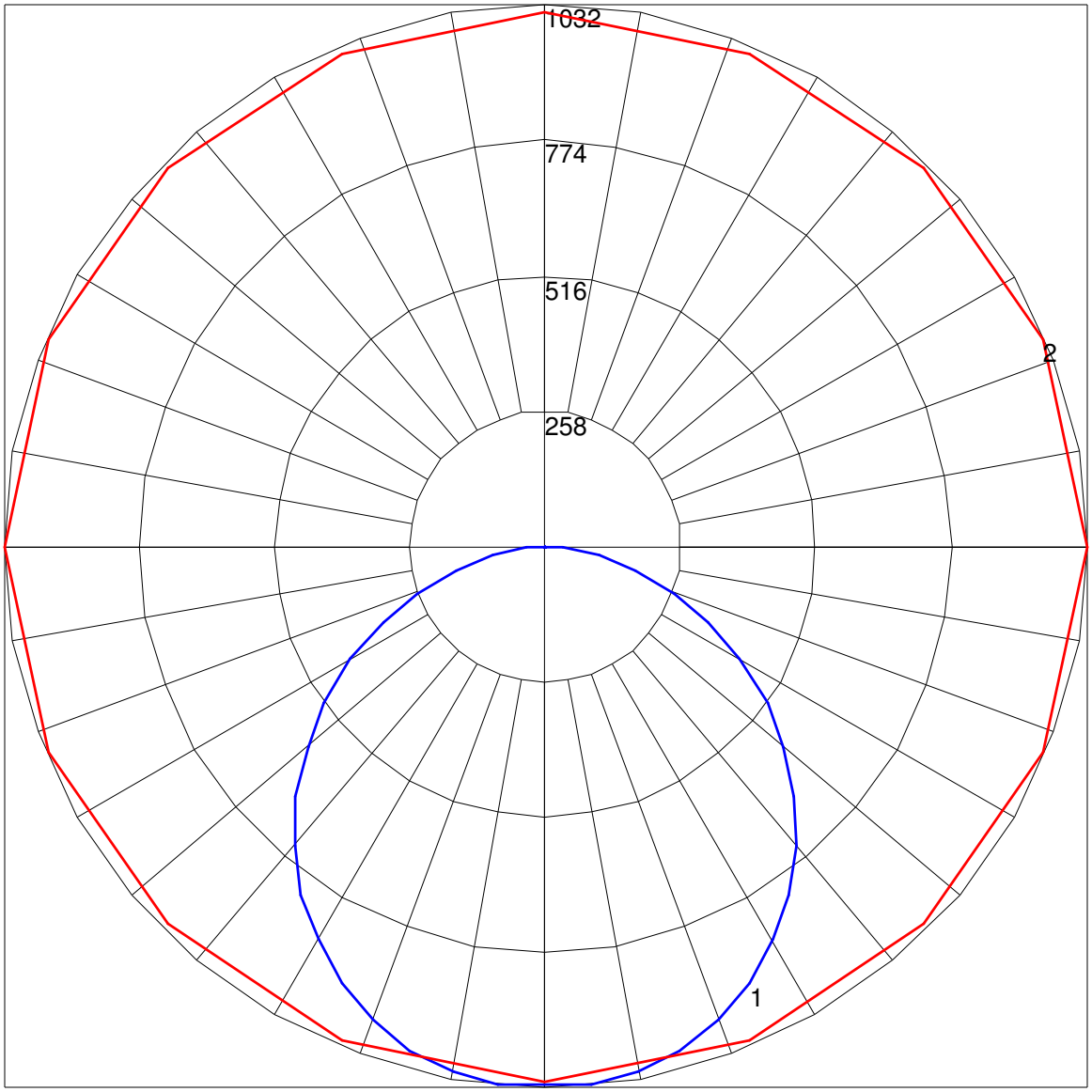
POLAR GRAPH



Maximum Candela = 1031.735 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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