IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-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-6-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	2450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	26.5
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)	6.00 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	10134	8154	7739
55	9580	7300	6981
65	8550	6280	6212
75	7202	5176	5529
85	4003	4303	4978

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	771.276	771.276	771.276	771.276	771.276
5	773.801	770.014	764.965	763.702	764.965
10	762.440	758.653	753.604	753.604	756.128
15	746.030	742.243	737.194	738.456	738.456
20	720.784	716.997	710.685	715.734	716.997
25	689.226	685.439	684.176	687.963	690.488
30	650.094	650.094	650.094	655.143	653.881
35	608.437	608.437	608.437	613.487	617.274
40	557.945	559.207	560.469	569.305	574.355
45	503.665	507.452	511.239	521.337	525.124
50	444.336	448.123	456.959	472.107	479.681
55	387.532	388.794	405.204	417.827	429.188
60	321.891	328.203	350.924	374.908	382.482
65	256.251	266.349	292.858	319.366	330.727
70	195.659	205.758	238.578	271.398	281.497
75	133.806	151.478	188.085	224.693	239.840
80	78.264	97.198	146.429	183.036	199.446
85	26.509	61.854	107.297	143.904	160.314
90	0.000	34.083	79.526	112.346	124.969
95	0.000	17.672	54.280	87.100	98.461
100	0.000	8.836	37.870	64.378	75.739
105	0.000	5.049	26.509	46.706	56.804
110	0.000	3.787	17.672	34.083	40.394
115	0.000	2.525	11.361	23.984	30.296
120	0.000	0.000	6.312	15.148	18.935
125	0.000	0.000	5.049	10.099	12.623
130	0.000	0.000	0.000	6.312	7.574
135	0.000	0.000	0.000	0.000	5.049
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	281.61	N.A.	11.50
0-30	598.11	N.A.	24.40
0-40	980.01	N.A.	40.00
0-60	1739.12	N.A.	71.00
0-80	2229.93	N.A.	91.00
0-90	2343.53	N.A.	95.70
10-90	2270.64	N.A.	92.70
20-40	698.40	N.A.	28.50
20-50	1094.58	N.A.	44.70
40-70	1050.41	N.A.	42.90
60-80	490.81	N.A.	20.00
70-80	199.51	N.A.	8.10
80-90	113.60	N.A.	4.60
90-110	87.29	N.A.	3.60
90-120	100.54	N.A.	4.10
90-130	105.28	N.A.	4.30
90-150	106.04	N.A.	4.30
90-180	106.04	N.A.	4.30
110-180	18.75	N.A.	0.80
0-180	2449.57	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.88
10-20	208.72
20-30	316.50
30-40	381.90
40-50	396.18
50-60	362.93
60-70	291.30
70-80	199.51
80-90	113.60
90-100	58.27
100-110	29.02
110-120	13.25
120-130	4.74
130-140	0.75
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	88	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	67	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	29	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	22.2	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	26.5	25.8	27.0	27.5
4H	2H	18.6	19.9	19.0	20.4	20.8	19.9	21.3	20.4	21.7	22.2
	3H	20.3	21.4	20.7	21.9	22.4	22.4	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	21.7	22.7	23.2	25.1	26.0	25.6	26.5	27.1
	8H	21.3	22.2	21.8	22.7	23.3	25.8	26.6	26.3	27.1	27.7
	12H	21.4	22.2	21.9	22.7	23.3	26.5	27.3	27.1	27.9	28.4
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	22.4	23.2	23.8	25.4	26.1	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	28.0
	12H	22.2	22.8	22.8	23.3	24.0	27.2	27.8	27.7	28.3	29.0
12H	4H	21.5	22.3	22.1	22.9	23.4	23.9	24.7	24.4	25.3	25.8
	6H	22.1	22.8	22.7	23.4	24.0	25.4	26.1	26.0	26.6	27.3
	8H	22.4	23.0	22.9	23.5	24.2	26.3	26.9	26.9	27.5	28.1

Maximum UGR = 29.0

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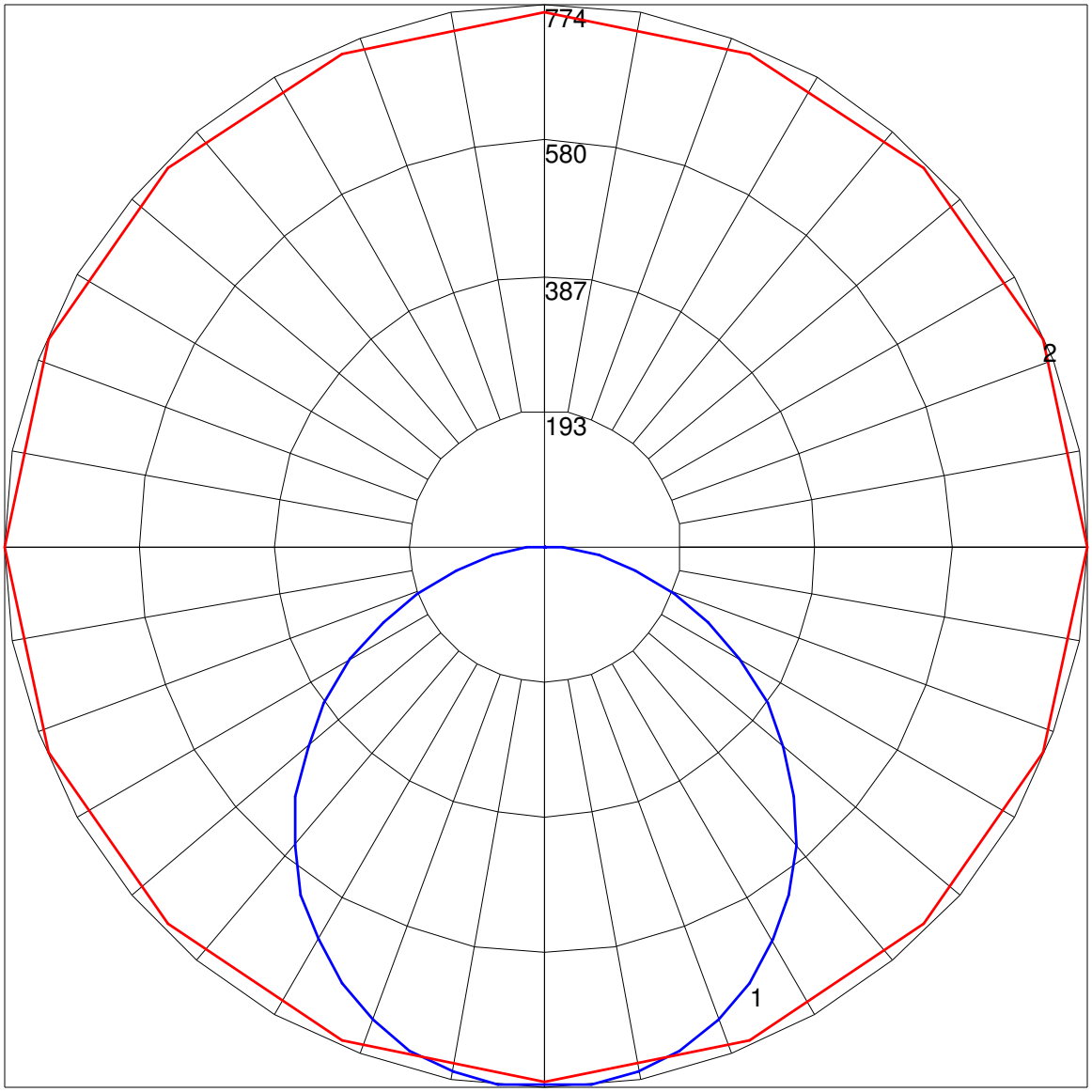
POLAR GRAPH



Maximum Candela = 773.801 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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