IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-830-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-L5-830-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	2957
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	12235	9844	9343
55	11567	8813	8428
65	10323	7583	7500
75	8695	6250	6675
85	4832	5195	6011

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	931.176	931.176	931.176	931.176	931.176
5	934.224	929.652	923.556	922.031	923.556
10	920.507	915.935	909.839	909.839	912.887
15	900.695	896.123	890.027	891.551	891.551
20	870.215	865.643	858.023	864.119	865.643
25	832.114	827.542	826.018	830.590	833.638
30	784.870	784.870	784.870	790.966	789.442
35	734.577	734.577	734.577	740.673	745.245
40	673.616	675.140	676.664	687.333	693.429
45	608.084	612.656	617.228	629.420	633.992
50	536.455	541.027	551.695	569.983	579.127
55	467.874	469.398	489.210	504.450	518.166
60	388.625	396.245	423.677	452.634	461.778
65	309.376	321.568	353.572	385.577	399.293
70	236.223	248.415	288.040	327.664	339.856
75	161.546	182.882	227.079	271.275	289.564
80	94.489	117.349	176.786	220.983	240.795
85	32.004	74.677	129.542	173.738	193.550
90	0.000	41.149	96.013	135.638	150.878
95	0.000	21.336	65.533	105.157	118.873
100	0.000	10.668	45.721	77.725	91.441
105	0.000	6.096	32.004	56.389	68.581
110	0.000	4.572	21.336	41.149	48.769
115	0.000	3.048	13.716	28.956	36.576
120	0.000	0.000	7.620	18.288	22.860
125	0.000	0.000	6.096	12.192	15.240
130	0.000	0.000	0.000	7.620	9.144
135	0.000	0.000	0.000	0.000	6.096
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	339.99	N.A.	11.50
0-30	722.11	N.A.	24.40
0-40	1183.18	N.A.	40.00
0-60	2099.67	N.A.	71.00
0-80	2692.24	N.A.	91.00
0-90	2829.38	N.A.	95.70
10-90	2741.39	N.A.	92.70
20-40	843.20	N.A.	28.50
20-50	1321.51	N.A.	44.70
40-70	1268.18	N.A.	42.90
60-80	592.57	N.A.	20.00
70-80	240.87	N.A.	8.10
80-90	137.15	N.A.	4.60
90-110	105.38	N.A.	3.60
90-120	121.38	N.A.	4.10
90-130	127.11	N.A.	4.30
90-150	128.02	N.A.	4.30
90-180	128.02	N.A.	4.30
110-180	22.64	N.A.	0.80
0-180	2957.4	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.99
10-20	252.00
20-30	382.12
30-40	461.08
40-50	478.31
50-60	438.18
60-70	351.69
70-80	240.87
80-90	137.15
90-100	70.35
100-110	35.03
110-120	16.00
120-130	5.73
130-140	0.91
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	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	24.0	22.9	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.4	22.9	24.8	26.1	25.3	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.6
	12H	20.8	22.0	21.3	22.4	23.0	26.1	27.2	26.5	27.7	28.2
4H	2H	19.3	20.6	19.7	21.1	21.5	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.1	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	26.0	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.8	26.7	26.3	27.2	27.8
	8H	22.0	22.9	22.6	23.4	24.0	26.5	27.3	27.0	27.9	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.2	28.0	27.8	28.6	29.1
8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.6
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.8	26.6	27.4	28.0
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.5	28.2	28.7
	12H	22.9	23.5	23.5	24.0	24.7	27.9	28.5	28.4	29.0	29.7
12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.2	26.0	26.5
	6H	22.8	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.3	28.0
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.6	28.2	28.8

Maximum UGR = 29.7

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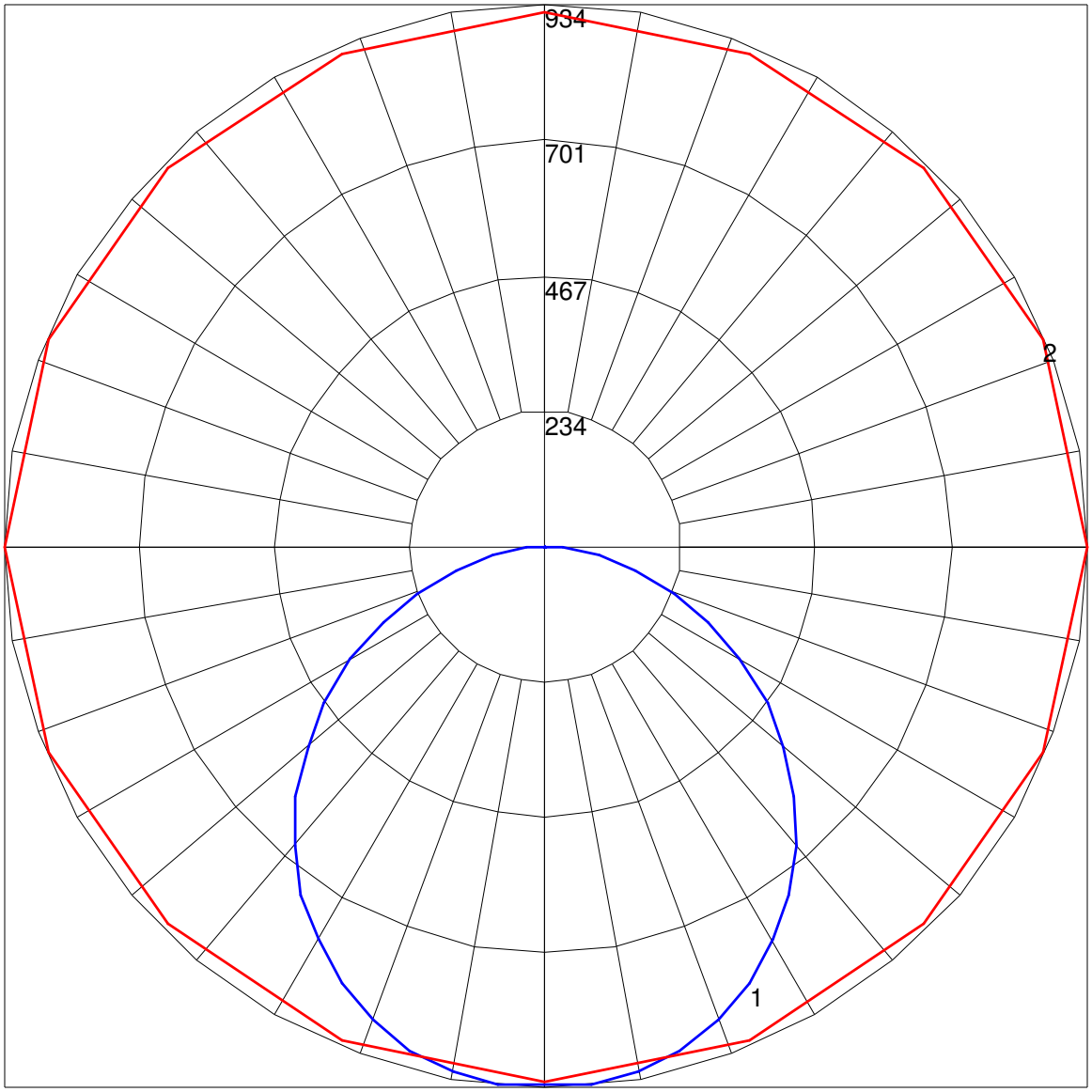
POLAR GRAPH



Maximum Candela = 934.224 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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