IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-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-8-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	3943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	12258	9855	9343
55	11599	8826	8428
65	10366	7597	7500
75	8758	6266	6675
85	4934	5215	6011

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1241.567	1241.567	1241.567	1241.567	1241.567
5	1245.631	1239.535	1231.407	1229.375	1231.407
10	1227.343	1221.247	1213.119	1213.119	1217.183
15	1200.927	1194.831	1186.703	1188.735	1188.735
20	1160.286	1154.190	1144.030	1152.158	1154.190
25	1109.486	1103.390	1101.358	1107.454	1111.518
30	1046.493	1046.493	1046.493	1054.621	1052.589
35	979.436	979.436	979.436	987.564	993.660
40	898.155	900.187	902.219	916.443	924.571
45	810.778	816.874	822.970	839.226	845.322
50	715.273	721.369	735.593	759.977	772.170
55	623.832	625.864	652.280	672.600	690.889
60	518.166	528.327	564.903	603.511	615.704
65	412.501	428.757	471.430	514.102	532.391
70	314.964	331.220	384.053	436.885	453.142
75	215.395	243.843	302.772	361.700	386.085
80	125.986	156.466	235.715	294.644	321.060
85	42.673	99.569	172.722	231.651	258.067
90	0.000	54.865	128.018	180.850	201.170
95	0.000	28.448	87.377	140.210	158.498
100	0.000	14.224	60.961	103.633	121.922
105	0.000	8.128	42.673	75.185	91.441
110	0.000	6.096	28.448	54.865	65.025
115	0.000	4.064	18.288	38.608	48.769
120	0.000	0.000	10.160	24.384	30.480
125	0.000	0.000	8.128	16.256	20.320
130	0.000	0.000	0.000	10.160	12.192
135	0.000	0.000	0.000	0.000	8.128
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	453.32	N.A.	11.50
0-30	962.81	N.A.	24.40
0-40	1577.58	N.A.	40.00
0-60	2799.56	N.A.	71.00
0-80	3589.65	N.A.	91.00
0-90	3772.51	N.A.	95.70
10-90	3655.19	N.A.	92.70
20-40	1124.26	N.A.	28.50
20-50	1762.01	N.A.	44.70
40-70	1690.9	N.A.	42.90
60-80	790.09	N.A.	20.00
70-80	321.17	N.A.	8.10
80-90	182.86	N.A.	4.60
90-110	140.51	N.A.	3.60
90-120	161.84	N.A.	4.10
90-130	169.48	N.A.	4.30
90-150	170.69	N.A.	4.30
90-180	170.69	N.A.	4.30
110-180	30.18	N.A.	0.80
0-180	3943.2	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.32
10-20	335.99
20-30	509.49
30-40	614.77
40-50	637.75
50-60	584.23
60-70	468.92
70-80	321.17
80-90	182.86
90-100	93.80
100-110	46.71
110-120	21.33
120-130	7.63
130-140	1.21
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	23.0	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	27.3	26.6	27.7	28.2
4H	2H	19.3	20.7	19.7	21.1	21.6	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.2	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	27.4	27.0	27.9	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.3	28.1	27.8	28.6	29.2
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	26.9	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	28.8
	12H	22.9	23.5	23.5	24.1	24.7	27.9	28.5	28.5	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	22.9	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.4	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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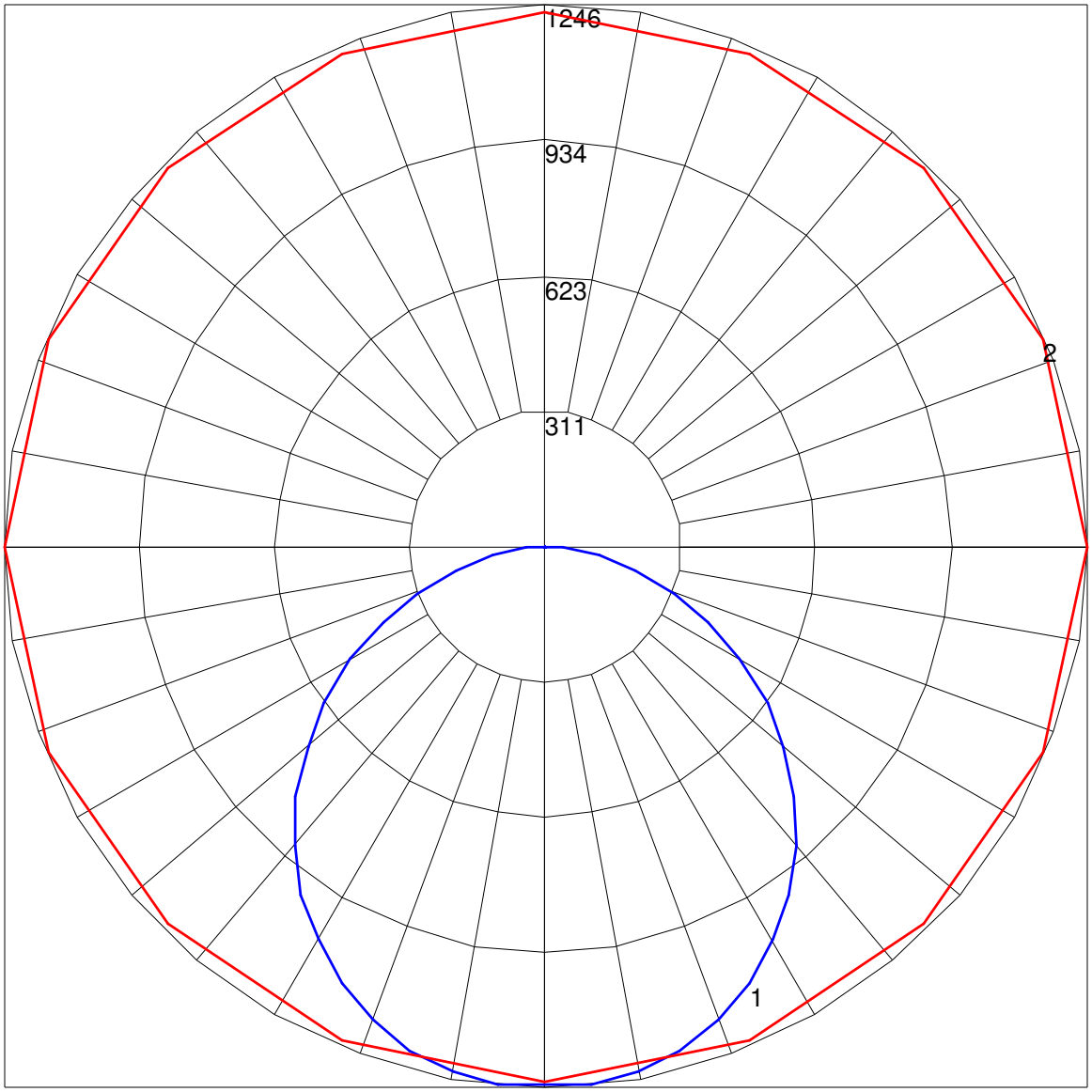
POLAR GRAPH



Maximum Candela = 1245.631 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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