IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-827-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-L5-827-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	3864
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	12011	9656	9154
55	11364	8648	8257
65	10156	7443	7348
75	8581	6139	6540
85	4834	5110	5889

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1216.485	1216.485	1216.485	1216.485	1216.485
5	1220.467	1214.494	1206.530	1204.539	1206.530
10	1202.548	1196.575	1188.611	1188.611	1192.593
15	1176.666	1170.693	1162.729	1164.720	1164.720
20	1136.846	1130.873	1120.918	1128.882	1130.873
25	1087.072	1081.099	1079.108	1085.081	1089.063
30	1025.352	1025.352	1025.352	1033.315	1031.325
35	959.649	959.649	959.649	967.613	973.586
40	880.010	882.001	883.992	897.929	905.893
45	794.399	800.372	806.344	822.272	828.245
50	700.823	706.796	720.733	744.624	756.570
55	611.229	613.220	639.103	659.012	676.931
60	507.698	517.653	553.491	591.319	603.265
65	404.168	420.096	461.906	503.716	521.635
70	308.601	324.529	376.294	428.059	443.987
75	211.043	238.917	296.655	354.393	378.285
80	123.440	153.305	230.953	288.691	314.574
85	41.810	97.558	169.233	226.971	252.854
90	0.000	53.756	125.431	177.197	197.106
95	0.000	27.874	85.612	137.377	155.296
100	0.000	13.937	59.729	101.540	119.458
105	0.000	7.964	41.810	73.666	89.594
110	0.000	5.973	27.874	53.756	63.711
115	0.000	3.982	17.919	37.829	47.783
120	0.000	0.000	9.955	23.892	29.865
125	0.000	0.000	7.964	15.928	19.910
130	0.000	0.000	0.000	9.955	11.946
135	0.000	0.000	0.000	0.000	7.964
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	444.16	N.A.	11.50
0-30	943.36	N.A.	24.40
0-40	1545.71	N.A.	40.00
0-60	2743.01	N.A.	71.00
0-80	3517.13	N.A.	91.00
0-90	3696.3	N.A.	95.70
10-90	3581.34	N.A.	92.70
20-40	1101.55	N.A.	28.50
20-50	1726.41	N.A.	44.70
40-70	1656.74	N.A.	42.90
60-80	774.13	N.A.	20.00
70-80	314.68	N.A.	8.10
80-90	179.17	N.A.	4.60
90-110	137.67	N.A.	3.60
90-120	158.58	N.A.	4.10
90-130	166.06	N.A.	4.30
90-150	167.25	N.A.	4.30
90-180	167.25	N.A.	4.30
110-180	29.57	N.A.	0.80
0-180	3863.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.95
10-20	329.21
20-30	499.20
30-40	602.35
40-50	624.87
50-60	572.43
60-70	459.45
70-80	314.68
80-90	179.17
90-100	91.90
100-110	45.77
110-120	20.90
120-130	7.48
130-140	1.19
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	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	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	18.4	20.0	18.8	20.4	20.8	20.1	21.7	20.5	22.1	22.5
	3H	19.9	21.3	20.3	21.7	22.2	22.4	23.9	22.9	24.3	24.7
	4H	20.3	21.7	20.8	22.1	22.6	23.5	24.9	24.0	25.3	25.8
	6H	20.6	21.9	21.1	22.3	22.8	24.7	26.0	25.2	26.4	26.9
	8H	20.7	21.9	21.2	22.4	22.9	25.3	26.5	25.8	27.0	27.5
	12H	20.7	21.9	21.2	22.3	22.9	26.0	27.2	26.5	27.6	28.1
4H	2H	19.2	20.6	19.6	21.0	21.4	20.5	21.9	21.0	22.3	22.8
	3H	20.9	22.0	21.3	22.5	23.0	23.1	24.2	23.5	24.7	25.2
	4H	21.4	22.5	21.9	23.0	23.5	24.3	25.4	24.8	25.9	26.4
	6H	21.8	22.8	22.4	23.3	23.8	25.7	26.6	26.2	27.1	27.7
	8H	21.9	22.8	22.5	23.3	23.9	26.4	27.3	26.9	27.8	28.3
	12H	22.0	22.8	22.5	23.3	23.9	27.2	28.0	27.7	28.5	29.1
8H	4H	22.0	22.9	22.5	23.4	23.9	24.5	25.4	25.0	25.9	26.5
	6H	22.5	23.3	23.1	23.8	24.4	26.0	26.8	26.5	27.3	27.9
	8H	22.7	23.4	23.2	23.9	24.5	26.8	27.5	27.4	28.1	28.7
	12H	22.8	23.4	23.4	24.0	24.6	27.8	28.4	28.4	28.9	29.6
12H	4H	22.1	22.9	22.7	23.5	24.0	24.5	25.3	25.1	25.9	26.4
	6H	22.8	23.4	23.3	24.0	24.6	26.0	26.7	26.6	27.3	27.9
	8H	23.0	23.6	23.6	24.1	24.8	26.9	27.5	27.5	28.1	28.7

Maximum UGR = 29.6

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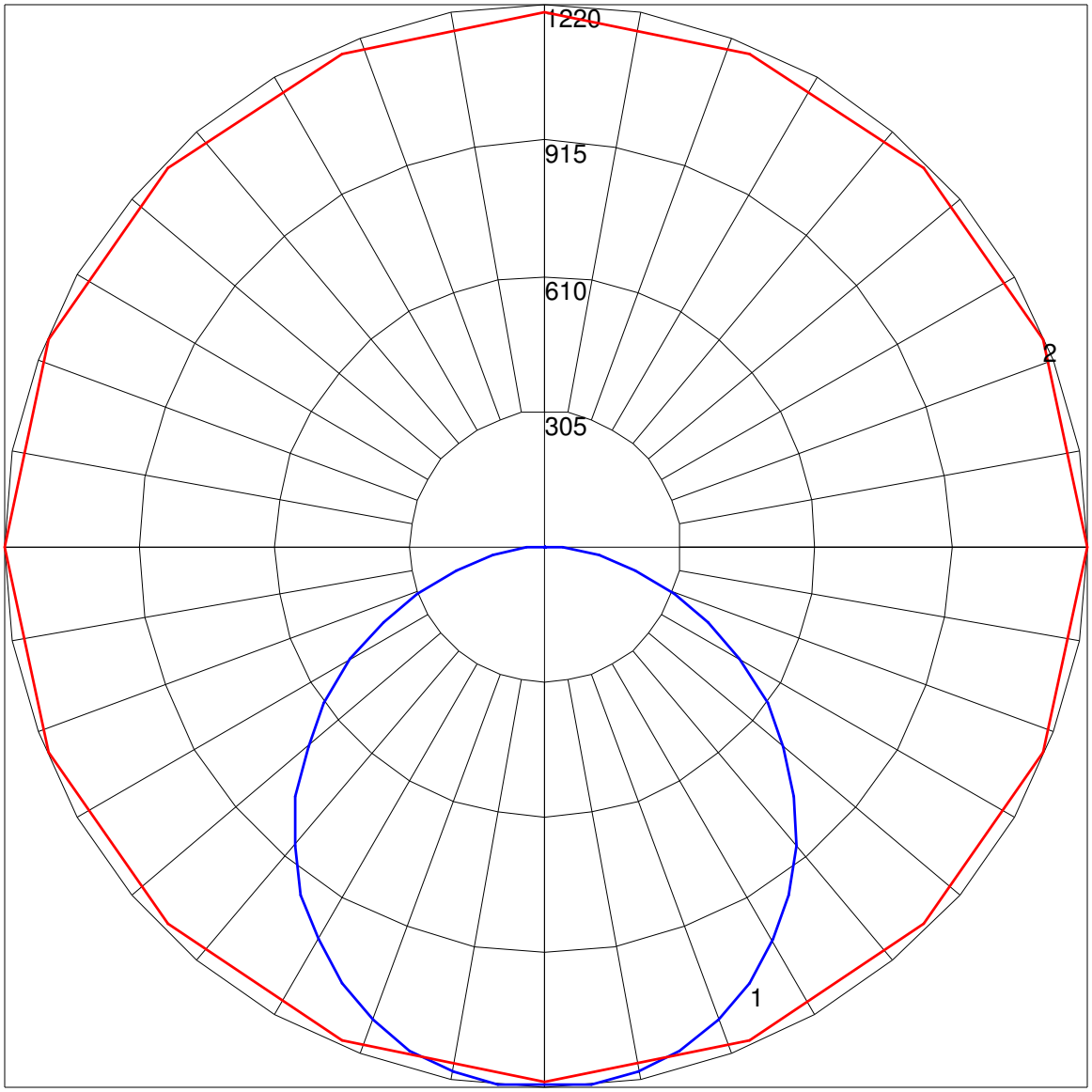
POLAR GRAPH



Maximum Candela = 1220.467 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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