IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-850-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-L5-850-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	3167
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	13100	10540	10004
55	12385	9436	9024
65	11053	8119	8030
75	9310	6692	7147
85	5174	5562	6436

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	997.016	997.016	997.016	997.016	997.016
5	1000.279	995.384	988.857	987.225	988.857
10	985.593	980.698	974.171	974.171	977.434
15	964.380	959.485	952.958	954.590	954.590
20	931.745	926.849	918.690	925.218	926.849
25	890.950	886.055	884.423	889.318	892.582
30	840.365	840.365	840.365	846.892	845.261
35	786.517	786.517	786.517	793.044	797.939
40	721.245	722.877	724.509	735.931	742.459
45	651.079	655.974	660.870	673.924	678.819
50	574.386	579.281	590.703	610.285	620.075
55	500.956	502.587	523.800	540.118	554.804
60	416.103	424.262	453.634	484.638	494.428
65	331.251	344.305	378.572	412.840	427.526
70	252.925	265.980	308.406	350.832	363.886
75	172.968	195.813	243.135	290.456	310.038
80	101.170	125.647	189.286	236.608	257.821
85	34.267	79.957	138.701	186.023	207.236
90	0.000	44.058	102.802	145.228	161.546
95	0.000	22.845	70.166	112.593	127.279
100	0.000	11.422	48.953	83.221	97.907
105	0.000	6.527	34.267	60.376	73.430
110	0.000	4.895	22.845	44.058	52.217
115	0.000	3.264	14.686	31.004	39.163
120	0.000	0.000	8.159	19.581	24.477
125	0.000	0.000	6.527	13.054	16.318
130	0.000	0.000	0.000	8.159	9.791
135	0.000	0.000	0.000	0.000	6.527
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	364.03	N.A.	11.50
0-30	773.16	N.A.	24.40
0-40	1266.84	N.A.	40.00
0-60	2248.13	N.A.	71.00
0-80	2882.6	N.A.	91.00
0-90	3029.44	N.A.	95.70
10-90	2935.22	N.A.	92.70
20-40	902.82	N.A.	28.50
20-50	1414.95	N.A.	44.70
40-70	1357.85	N.A.	42.90
60-80	634.46	N.A.	20.00
70-80	257.91	N.A.	8.10
80-90	146.84	N.A.	4.60
90-110	112.84	N.A.	3.60
90-120	129.97	N.A.	4.10
90-130	136.10	N.A.	4.30
90-150	137.07	N.A.	4.30
90-180	137.07	N.A.	4.30
110-180	24.24	N.A.	0.80
0-180	3166.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.21
10-20	269.81
20-30	409.14
30-40	493.68
40-50	512.13
50-60	469.16
60-70	376.56
70-80	257.91
80-90	146.84
90-100	75.32
100-110	37.51
110-120	17.13
120-130	6.13
130-140	0.98
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	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	18.7	20.3	19.1	20.7	21.1	20.4	22.0	20.8	22.4	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.7	24.2	23.1	24.6	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.8	25.2	24.3	25.6	26.1
	6H	20.9	22.2	21.4	22.6	23.1	25.0	26.3	25.5	26.7	27.2
	8H	21.0	22.2	21.5	22.7	23.2	25.6	26.8	26.1	27.3	27.8
	12H	21.0	22.2	21.5	22.6	23.2	26.3	27.4	26.7	27.9	28.4
4H	2H	19.5	20.8	19.9	21.3	21.7	20.8	22.2	21.3	22.6	23.1
	3H	21.2	22.3	21.6	22.8	23.3	23.3	24.5	23.8	25.0	25.5
	4H	21.7	22.8	22.2	23.3	23.8	24.6	25.7	25.1	26.2	26.7
	6H	22.1	23.1	22.7	23.6	24.1	26.0	26.9	26.5	27.4	28.0
	8H	22.2	23.1	22.8	23.6	24.2	26.7	27.5	27.2	28.1	28.6
	12H	22.3	23.1	22.8	23.6	24.2	27.4	28.2	28.0	28.8	29.3
8H	4H	22.3	23.2	22.8	23.7	24.2	24.8	25.7	25.3	26.2	26.8
	6H	22.8	23.6	23.4	24.1	24.7	26.3	27.0	26.8	27.6	28.2
	8H	23.0	23.7	23.5	24.2	24.8	27.1	27.8	27.7	28.4	28.9
	12H	23.1	23.7	23.7	24.2	24.9	28.1	28.7	28.6	29.2	29.9
12H	4H	22.4	23.2	23.0	23.8	24.3	24.8	25.6	25.4	26.2	26.7
	6H	23.0	23.7	23.6	24.3	24.9	26.3	27.0	26.9	27.5	28.2
	8H	23.3	23.9	23.9	24.4	25.1	27.2	27.8	27.8	28.4	29.0

Maximum UGR = 29.9

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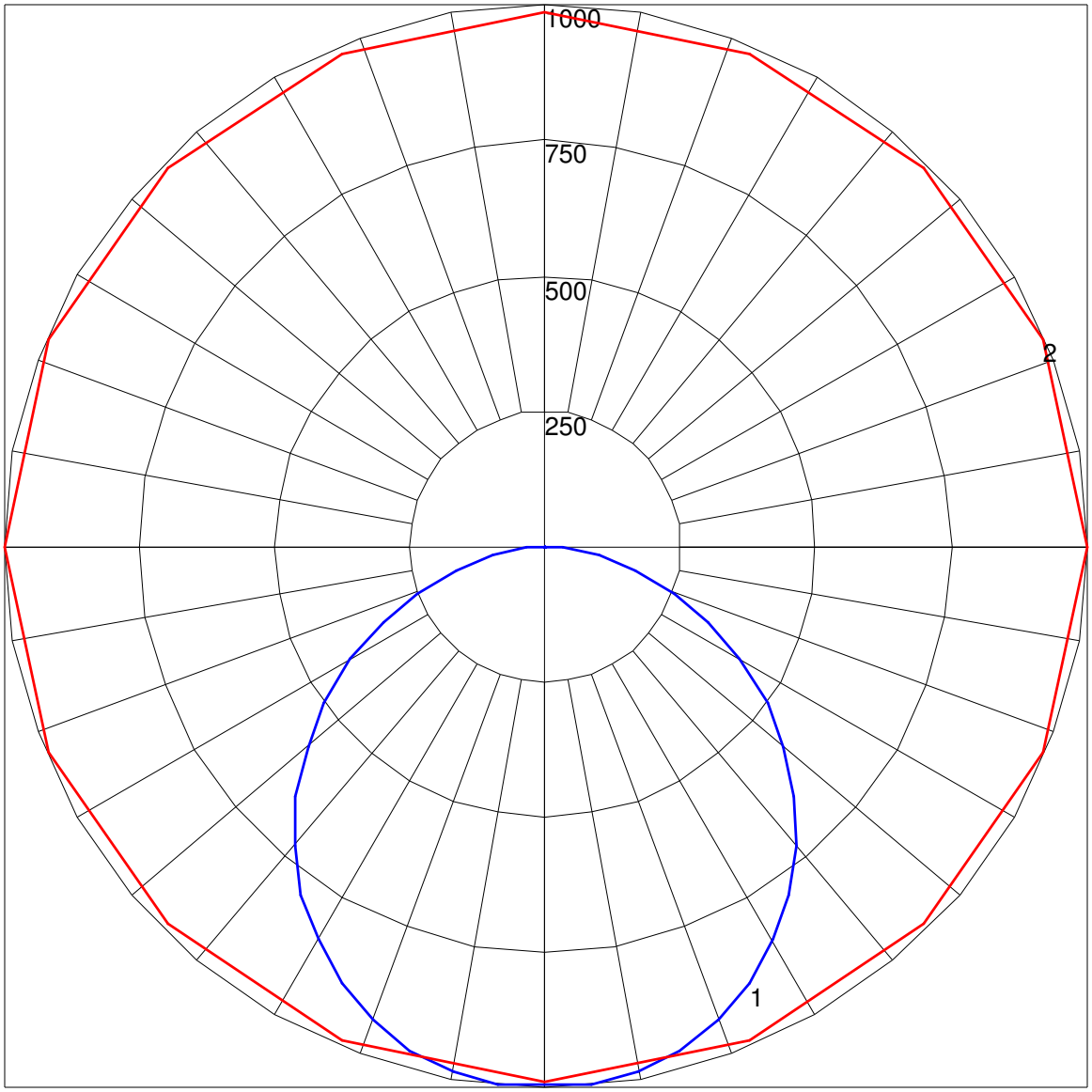
POLAR GRAPH



Maximum Candela = 1000.279 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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