

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **VRVT4S-LD5-12-PC-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-12-PC-L835-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

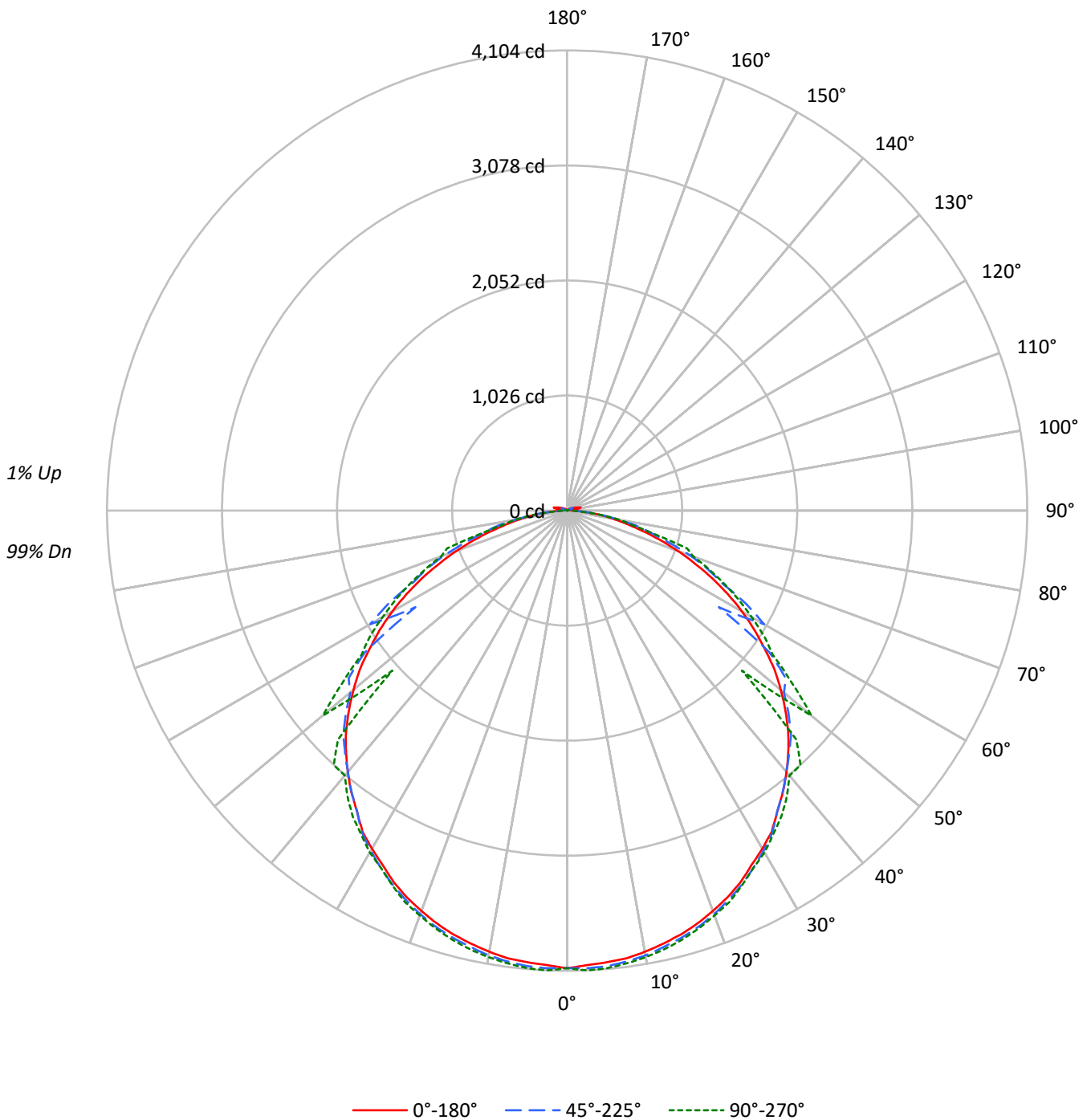
Lumens per Lamp: N/A
Luminaire Lumens: 12009.9 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19474	19474	19474
5°	19170	19122	19229
10°	18958	18696	18825
15°	18731	18266	18427
20°	18485	17840	17999
25°	18236	17377	17533
30°	17938	16882	17113
35°	17566	16220	16706
40°	17222	15681	16098
45°	16801	15263	15851
50°	16154	14463	16551
55°	15288	13538	14000
60°	14231	13535	12956
65°	12837	11149	11673
70°	11024	9634	10207
75°	8770	7413	7829
80°	6703	5275	5575
85°	4270	2698	2362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	3.2
10°-20°	1113.0	9.3
20°-30°	1695.0	14.1
30°-40°	2062.4	17.2
40°-50°	2148.1	17.9
50°-60°	1963.4	16.3
60°-70°	1495.1	12.4
70°-80°	811.5	6.8
80°-90°	223.5	1.9
90°-100°	28.6	0.2
100°-110°	38.9	0.3
110°-120°	26.0	0.2
120°-130°	10.0	0.1
130°-140°	4.0	0.0
140°-150°	1.3	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3195.5	26.6
0°-40°	5257.9	43.8
0°-60°	9369.4	78.0
0°-90°	11899.6	99.1
90°-120°	93.5	0.8
90°-150°	108.8	0.9
90°-180°	110.0	0.9
0°-180°	12009.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4081	4081	4081	4081	4081	
5°	4044	4061	4079	4094	4096	385
15°	3914	3932	3944	3959	3961	1105
25°	3658	3676	3682	3689	3689	1685
35°	3269	3292	3268	3308	3332	2050
45°	2789	2795	2823	2957	2891	2146
55°	2153	2159	2204	2353	2238	1925
65°	1430	1473	1513	1544	1546	1410
75°	689	766	774	790	790	742
85°	185	201	189	157	157	199
90°	37	53	50	46	44	26
95°	30	24	26	14	14	43
105°	106	138	14	14	13	109
115°	55	34	54	7	7	56
125°	25	18	7	2	2	23
135°	10	8	3	2	2	8
145°	3	2	2	2	1	2
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4081.3	4081.3	4081.3	4081.3	4081.3
2.5°	4058.1	4070.9	4084.5	4098.9	4104.5
5°	4044.4	4061.3	4078.9	4094.1	4095.7
7.5°	4027.6	4044.4	4056.4	4069.3	4073.3
10°	3995.6	4019.6	4027.6	4036.4	4043.6
12.5°	3956.3	3978.8	3986.0	4003.6	4007.6
15°	3913.9	3932.3	3943.5	3958.7	3961.1
17.5°	3861.8	3880.3	3893.1	3901.9	3907.5
20°	3799.4	3814.6	3830.6	3837.0	3842.6
22.5°	3734.5	3744.1	3759.3	3769.7	3779.3
25°	3657.6	3676.0	3682.4	3688.8	3688.8
27.5°	3563.1	3590.3	3595.1	3585.5	3593.5
30°	3481.4	3499.8	3503.0	3491.8	3519.9
32.5°	3394.9	3395.7	3405.3	3402.9	3421.4
35°	3269.2	3292.4	3268.4	3308.4	3331.7
37.5°	3161.9	3181.1	3161.1	3221.9	3217.9
40°	3043.3	3061.8	3041.7	3093.8	3085.0
42.5°	2919.2	2935.2	2930.4	2954.4	3080.2
45°	2788.7	2795.1	2823.1	2956.8	2891.2
47.5°	2641.3	2646.9	2676.5	2628.5	2114.3
50°	2487.5	2493.1	2524.4	1986.2	2843.1
52.5°	2332.2	2324.1	2455.5	2670.9	2528.4
55°	2152.8	2159.2	2204.0	2353.0	2237.7
57.5°	1980.6	1995.0	1605.0	2070.3	2081.5
60°	1801.2	1827.6	2027.8	1894.9	1900.5
62.5°	1615.4	1660.2	1793.2	1720.3	1725.9
65°	1429.6	1472.8	1512.9	1544.1	1545.7
67.5°	1231.8	1298.2	1349.5	1337.5	1370.3
70°	1050.8	1020.3	1161.3	1157.3	1195.7
72.5°	863.3	937.8	953.8	828.1	1122.0
75°	688.8	765.6	774.4	790.5	790.5
77.5°	533.4	578.2	644.7	613.5	591.0
80°	410.0	422.9	462.1	476.5	468.5
82.5°	305.1	287.5	318.7	332.4	301.1
85°	185.0	201.0	189.0	157.0	157.0
87.5°	76.1	96.1	84.9	77.7	68.9
90°	36.8	52.9	49.7	45.7	44.0
92.5°	38.4	36.8	26.4	18.4	14.4
95°	29.6	24.0	25.6	14.4	13.6
97.5°	56.1	17.6	17.6	12.8	10.4
100°	104.1	15.2	16.0	12.8	8.8
102.5°	124.1	22.4	16.0	12.8	12.8
105°	106.5	137.8	13.6	14.4	12.8
107.5°	90.5	62.5	10.4	12.8	14.4
110°	76.1	44.0	8.8	12.0	13.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.1	32.8	8.8	8.8	12.0
115°	55.3	34.4	54.5	7.2	7.2
117.5°	46.5	54.5	24.0	5.6	7.2
120°	37.6	31.2	14.4	7.2	4.8
122.5°	29.6	23.2	9.6	2.4	4.8
125°	24.8	18.4	7.2	1.6	2.4
127.5°	20.0	15.2	4.8	1.6	1.6
130°	16.0	14.4	3.2	1.6	1.6
132.5°	13.6	10.4	8.8	1.6	1.6
135°	10.4	8.0	3.2	1.6	1.6
137.5°	8.0	6.4	2.4	1.6	1.6
140°	6.4	4.8	1.6	1.6	0.8
142.5°	4.8	3.2	1.6	1.6	0.8
145°	3.2	1.6	1.6	1.6	0.8
147.5°	2.4	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	2.4	2.4	2.4	2.4	1.6
165°	2.4	2.4	2.4	2.4	2.4
167.5°	2.4	2.4	2.4	2.4	2.4
170°	2.4	2.4	2.4	2.4	2.4
172.5°	2.4	2.4	2.4	2.4	2.4
175°	2.4	2.4	2.4	2.4	2.4
177.5°	2.4	2.4	2.4	2.4	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)