

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-DR-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-12-DR-L835-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

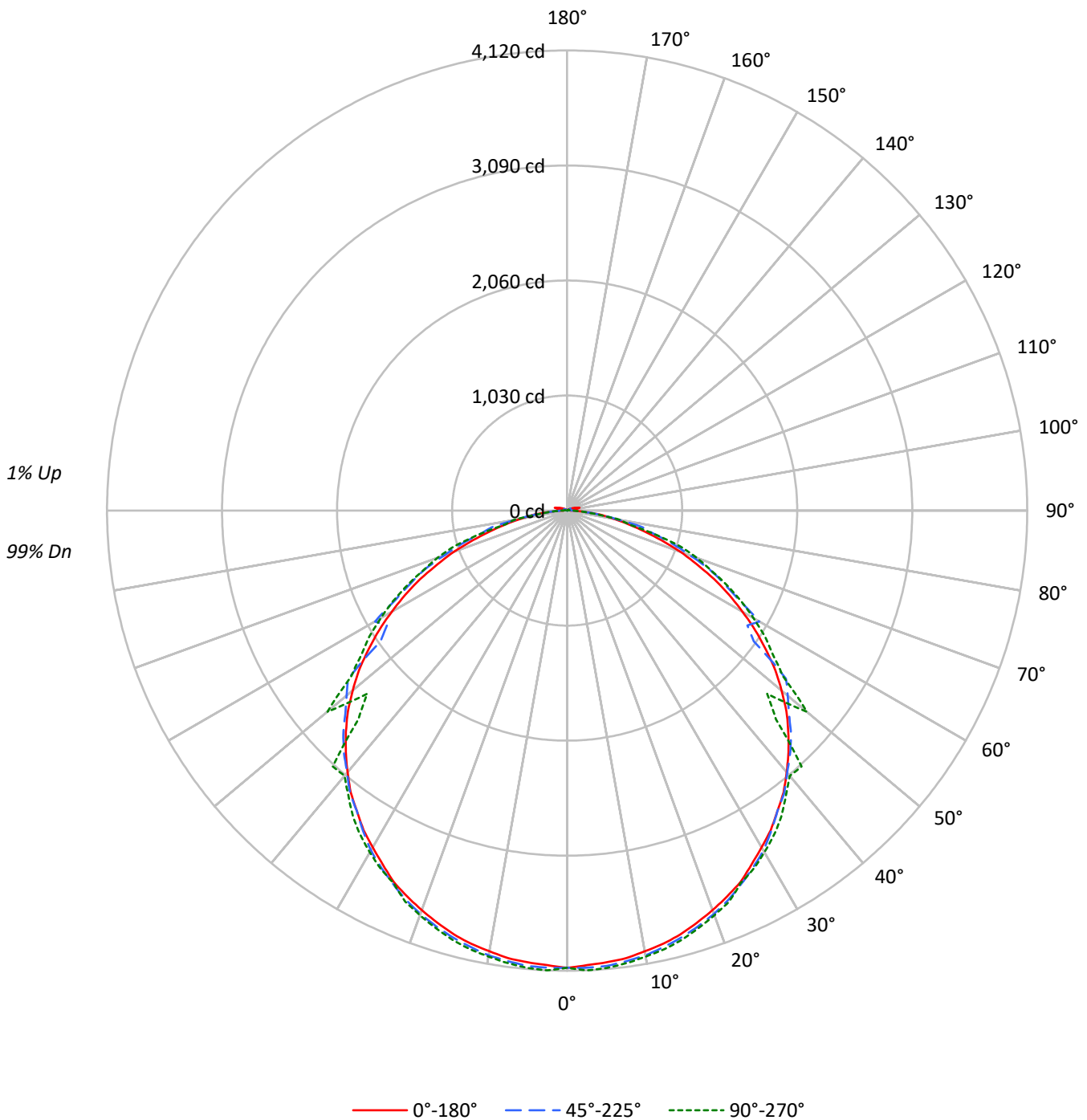
Lumens per Lamp: N/A
Luminaire Lumens: 12092.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	84	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	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	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	31	43	36	31	42	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19532	19532	19532
5°	19244	19184	19296
10°	19012	18769	18877
15°	18796	18328	18504
20°	18518	17894	18058
25°	18303	17409	17486
30°	17941	16936	17178
35°	17644	16296	16769
40°	17307	15794	16180
45°	16875	15325	14488
50°	16276	14772	16306
55°	15421	12532	14061
60°	14319	13257	13137
65°	13014	11421	11889
70°	11317	9696	10527
75°	8998	7665	7865
80°	6924	5246	5713
85°	4367	2499	2537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.8	3.2
10°-20°	1116.6	9.2
20°-30°	1699.6	14.1
30°-40°	2070.4	17.1
40°-50°	2162.4	17.9
50°-60°	1978.3	16.4
60°-70°	1510.8	12.5
70°-80°	823.7	6.8
80°-90°	222.5	1.8
90°-100°	34.1	0.3
100°-110°	41.4	0.3
110°-120°	24.9	0.2
120°-130°	11.9	0.1
130°-140°	4.1	0.0
140°-150°	1.2	0.0
150°-160°	0.6	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3204.9	26.5
0°-40°	5275.3	43.6
0°-60°	9415.9	77.9
0°-90°	11973.0	99.0
90°-120°	100.3	0.8
90°-150°	117.5	1.0
90°-180°	119.0	1.0
0°-180°	12092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4093	4093	4093	4093	4093	
5°	4060	4077	4092	4106	4110	386
15°	3927	3943	3957	3971	3978	1108
25°	3671	3683	3689	3700	3679	1688
35°	3284	3302	3284	3326	3344	2057
45°	2801	2814	2834	2980	2643	2159
55°	2172	2184	2040	2263	2248	1941
65°	1449	1493	1550	1555	1574	1430
75°	707	761	801	799	794	765
85°	189	190	175	170	169	206
90°	32	54	52	50	49	25
95°	31	28	30	24	24	36
105°	99	131	17	18	18	99
115°	49	24	32	12	13	50
125°	22	18	9	5	6	21
135°	10	8	4	3	3	8
145°	4	3	1	1	1	2
155°	1	1	1	1	1	1
165°	3	3	3	3	1	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4093.4	4093.4	4093.4	4093.4	4093.4
2.5°	4074.0	4084.3	4097.2	4115.2	4120.4
5°	4059.9	4076.6	4092.1	4106.2	4110.1
7.5°	4041.9	4062.5	4068.9	4086.9	4086.9
10°	4007.1	4030.3	4043.2	4054.7	4054.7
12.5°	3973.6	3990.4	4002.0	4016.1	4022.6
15°	3927.3	3942.8	3956.9	3971.1	3977.5
17.5°	3868.1	3892.5	3901.6	3913.1	3918.3
20°	3806.3	3829.5	3842.3	3852.6	3855.2
22.5°	3740.7	3758.7	3771.6	3775.4	3789.6
25°	3671.1	3682.7	3689.2	3699.5	3678.9
27.5°	3573.3	3595.2	3604.2	3595.2	3615.8
30°	3481.9	3503.8	3514.1	3516.7	3533.4
32.5°	3391.8	3407.3	3402.1	3421.4	3445.9
35°	3283.7	3301.7	3283.7	3326.2	3344.2
37.5°	3182.0	3191.0	3192.3	3234.8	3216.8
40°	3058.4	3070.0	3063.6	3090.6	3100.9
42.5°	2933.6	2943.9	2955.5	2976.0	3107.3
45°	2801.0	2813.9	2834.5	2979.9	2642.7
47.5°	2663.3	2665.8	2692.9	2470.2	2427.7
50°	2506.2	2504.9	2578.3	2345.3	2801.0
52.5°	2349.2	2347.9	2470.2	2580.9	2436.7
55°	2171.5	2184.4	2040.2	2262.9	2247.5
57.5°	1999.1	2010.6	1912.8	2067.3	2100.7
60°	1812.4	1857.5	1986.2	1925.7	1927.0
62.5°	1634.8	1674.7	1731.3	1750.6	1758.3
65°	1449.4	1493.2	1549.8	1555.0	1574.3
67.5°	1252.5	1315.5	1383.8	1374.7	1392.8
70°	1078.7	1001.5	1168.8	1176.5	1233.2
72.5°	883.0	975.7	988.6	823.8	1060.7
75°	706.7	760.7	800.7	799.4	794.2
77.5°	559.9	596.0	692.5	623.0	563.8
80°	423.5	433.8	459.5	457.0	480.1
82.5°	319.2	303.8	312.8	308.9	272.9
85°	189.2	190.5	175.1	169.9	168.6
87.5°	78.5	87.5	85.0	81.1	87.5
90°	32.2	54.1	51.5	50.2	48.9
92.5°	36.0	38.6	36.0	30.9	27.0
95°	30.9	28.3	29.6	24.5	24.5
97.5°	42.5	23.2	23.2	20.6	19.3
100°	85.0	20.6	21.9	18.0	18.0
102.5°	113.3	21.9	19.3	18.0	19.3
105°	99.1	131.3	16.7	18.0	18.0
107.5°	83.7	77.2	15.4	16.7	18.0
110°	70.8	47.6	12.9	15.4	16.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.9	33.5	11.6	12.9	15.4
115°	48.9	24.5	32.2	11.6	12.9
117.5°	41.2	25.7	34.8	10.3	11.6
120°	33.5	52.8	18.0	9.0	9.0
122.5°	27.0	24.5	12.9	6.4	7.7
125°	21.9	18.0	9.0	5.1	6.4
127.5°	18.0	14.2	6.4	3.9	5.1
130°	15.4	12.9	3.9	3.9	3.9
132.5°	12.9	10.3	3.9	2.6	3.9
135°	10.3	7.7	3.9	2.6	2.6
137.5°	7.7	6.4	2.6	2.6	2.6
140°	6.4	3.9	1.3	1.3	1.3
142.5°	5.1	3.9	1.3	1.3	1.3
145°	3.9	2.6	1.3	1.3	1.3
147.5°	2.6	1.3	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3
162.5°	2.6	2.6	2.6	2.6	1.3
165°	2.6	2.6	2.6	2.6	1.3
167.5°	2.6	2.6	2.6	2.6	1.3
170°	2.6	2.6	2.6	2.6	1.3
172.5°	2.6	2.6	2.6	2.6	2.6
175°	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)