

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-LD5-9-PC-L840-CD1-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-LD5-9-PC-L840-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9330.9 lumens
Efficiency: N/A
Efficacy: 151.7 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

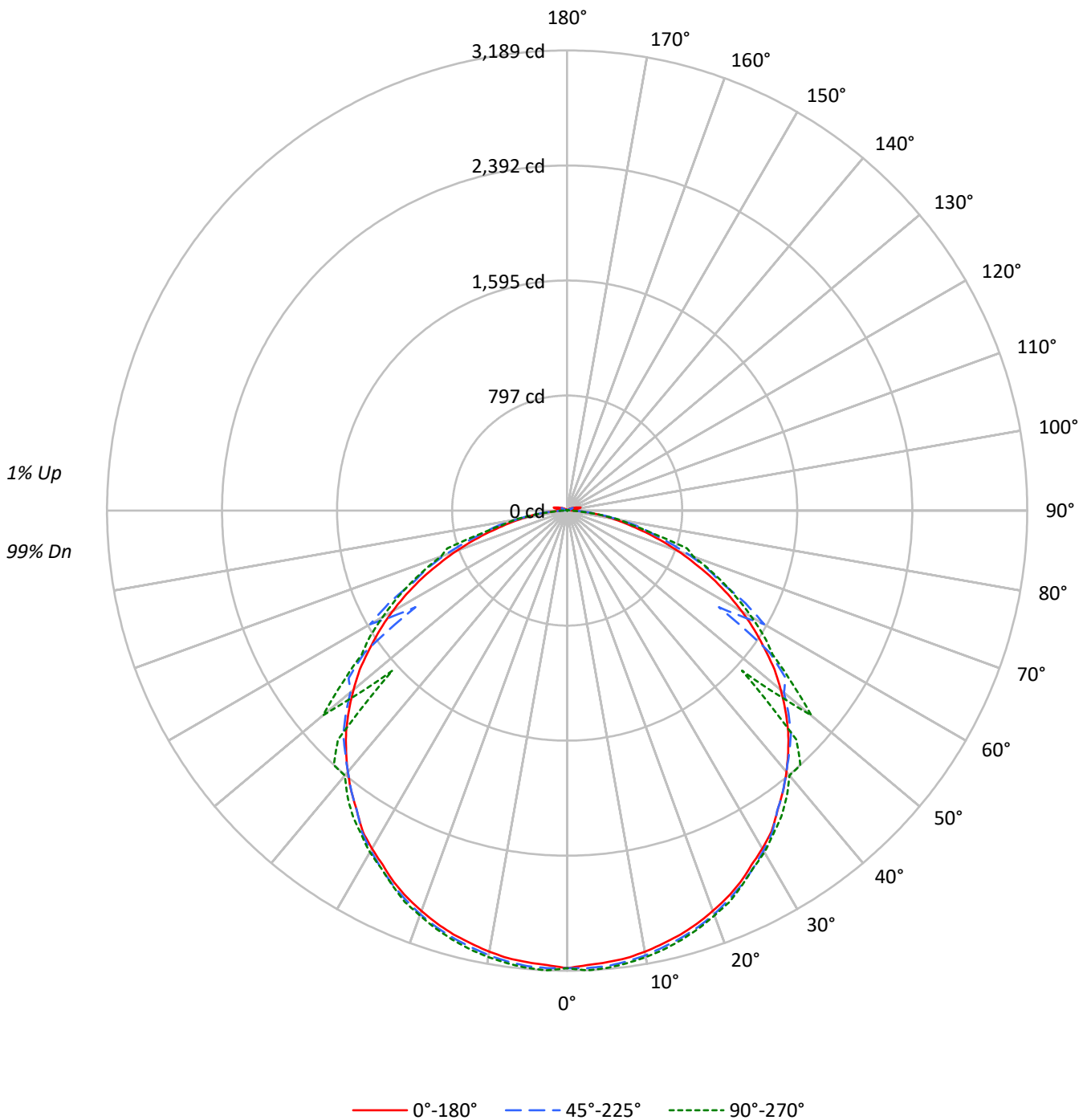
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-9-PC-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-9-PC-L840-CD1-U

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°	15130	15130	15130
5°	14894	14856	14940
10°	14729	14526	14626
15°	14553	14192	14317
20°	14361	13860	13984
25°	14168	13501	13622
30°	13937	13116	13295
35°	13648	12602	12980
40°	13380	12183	12507
45°	13053	11859	12315
50°	12551	11237	12859
55°	11878	10518	10877
60°	11056	10516	10066
65°	9973	8662	9069
70°	8565	7485	7931
75°	6813	5760	6082
80°	5209	4098	4331
85°	3317	2095	1836



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-9-PC-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	3.2
10°-20°	864.8	9.3
20°-30°	1317.0	14.1
30°-40°	1602.4	17.2
40°-50°	1669.0	17.9
50°-60°	1525.4	16.3
60°-70°	1161.6	12.4
70°-80°	630.5	6.8
80°-90°	173.6	1.9
90°-100°	22.3	0.2
100°-110°	30.2	0.3
110°-120°	20.2	0.2
120°-130°	7.8	0.1
130°-140°	3.1	0.0
140°-150°	1.0	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2482.7	26.6
0°-40°	4085.1	43.8
0°-60°	7279.4	78.0
0°-90°	9245.2	99.1
90°-120°	72.7	0.8
90°-150°	84.5	0.9
90°-180°	86.0	0.9
0°-180°	9330.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3171	3171	3171	3171	3171	
5°	3142	3155	3169	3181	3182	299
15°	3041	3055	3064	3076	3078	858
25°	2842	2856	2861	2866	2866	1309
35°	2540	2558	2539	2570	2588	1593
45°	2167	2172	2193	2297	2246	1667
55°	1673	1678	1712	1828	1738	1496
65°	1111	1144	1175	1200	1201	1096
75°	535	595	602	614	614	577
85°	144	156	147	122	122	155
90°	29	41	39	36	34	20
95°	23	19	20	11	11	33
105°	83	107	11	11	10	85
115°	43	27	42	6	6	43
125°	19	14	6	1	2	18
135°	8	6	2	1	1	7
145°	2	1	1	1	1	2
155°	1	1	1	1	1	1
165°	2	2	2	2	2	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-9-PC-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3170.9	3170.9	3170.9	3170.9	3170.9
2.5°	3152.8	3162.8	3173.4	3184.6	3188.9
5°	3142.3	3155.3	3169.0	3180.8	3182.1
7.5°	3129.2	3142.3	3151.6	3161.6	3164.7
10°	3104.3	3123.0	3129.2	3136.0	3141.6
12.5°	3073.8	3091.2	3096.8	3110.5	3113.6
15°	3040.8	3055.2	3063.9	3075.7	3077.6
17.5°	3000.4	3014.7	3024.7	3031.5	3035.9
20°	2951.9	2963.7	2976.1	2981.1	2985.5
22.5°	2901.5	2908.9	2920.8	2928.8	2936.3
25°	2841.7	2856.0	2861.0	2866.0	2866.0
27.5°	2768.3	2789.5	2793.2	2785.7	2792.0
30°	2704.8	2719.1	2721.6	2712.9	2734.7
32.5°	2637.6	2638.3	2645.7	2643.9	2658.2
35°	2539.9	2558.0	2539.3	2570.4	2588.5
37.5°	2456.6	2471.5	2455.9	2503.2	2500.1
40°	2364.5	2378.8	2363.2	2403.7	2396.8
42.5°	2268.0	2280.5	2276.7	2295.4	2393.1
45°	2166.6	2171.6	2193.4	2297.3	2246.3
47.5°	2052.1	2056.5	2079.5	2042.2	1642.7
50°	1932.6	1937.0	1961.3	1543.1	2208.9
52.5°	1811.9	1805.7	1907.8	2075.1	1964.4
55°	1672.6	1677.5	1712.4	1828.1	1738.5
57.5°	1538.8	1550.0	1247.0	1608.5	1617.2
60°	1399.4	1419.9	1575.5	1472.2	1476.6
62.5°	1255.0	1289.9	1393.2	1336.6	1340.9
65°	1110.7	1144.3	1175.4	1199.7	1200.9
67.5°	957.0	1008.6	1048.5	1039.1	1064.6
70°	816.4	792.7	902.2	899.1	929.0
72.5°	670.8	728.6	741.1	643.4	871.7
75°	535.1	594.9	601.7	614.1	614.1
77.5°	414.4	449.3	500.9	476.6	459.2
80°	318.6	328.5	359.0	370.2	364.0
82.5°	237.1	223.4	247.6	258.2	234.0
85°	143.7	156.2	146.8	122.0	122.0
87.5°	59.1	74.7	66.0	60.4	53.5
90°	28.6	41.1	38.6	35.5	34.2
92.5°	29.9	28.6	20.5	14.3	11.2
95°	23.0	18.7	19.9	11.2	10.6
97.5°	43.6	13.7	13.7	10.0	8.1
100°	80.9	11.8	12.4	10.0	6.8
102.5°	96.4	17.4	12.4	10.0	10.0
105°	82.8	107.0	10.6	11.2	10.0
107.5°	70.3	48.5	8.1	10.0	11.2
110°	59.1	34.2	6.8	9.3	10.6



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-9-PC-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.8	25.5	6.8	6.8	9.3
115°	42.9	26.8	42.3	5.6	5.6
117.5°	36.1	42.3	18.7	4.4	5.6
120°	29.2	24.3	11.2	5.6	3.7
122.5°	23.0	18.0	7.5	1.9	3.7
125°	19.3	14.3	5.6	1.2	1.9
127.5°	15.6	11.8	3.7	1.2	1.2
130°	12.4	11.2	2.5	1.2	1.2
132.5°	10.6	8.1	6.8	1.2	1.2
135°	8.1	6.2	2.5	1.2	1.2
137.5°	6.2	5.0	1.9	1.2	1.2
140°	5.0	3.7	1.2	1.2	0.6
142.5°	3.7	2.5	1.2	1.2	0.6
145°	2.5	1.2	1.2	1.2	0.6
147.5°	1.9	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2
157.5°	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2
162.5°	1.9	1.9	1.9	1.9	1.2
165°	1.9	1.9	1.9	1.9	1.9
167.5°	1.9	1.9	1.9	1.9	1.9
170°	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9
175°	1.9	1.9	1.9	1.9	1.9
177.5°	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)