

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-DRF-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 (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-DRF-L840-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9222.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

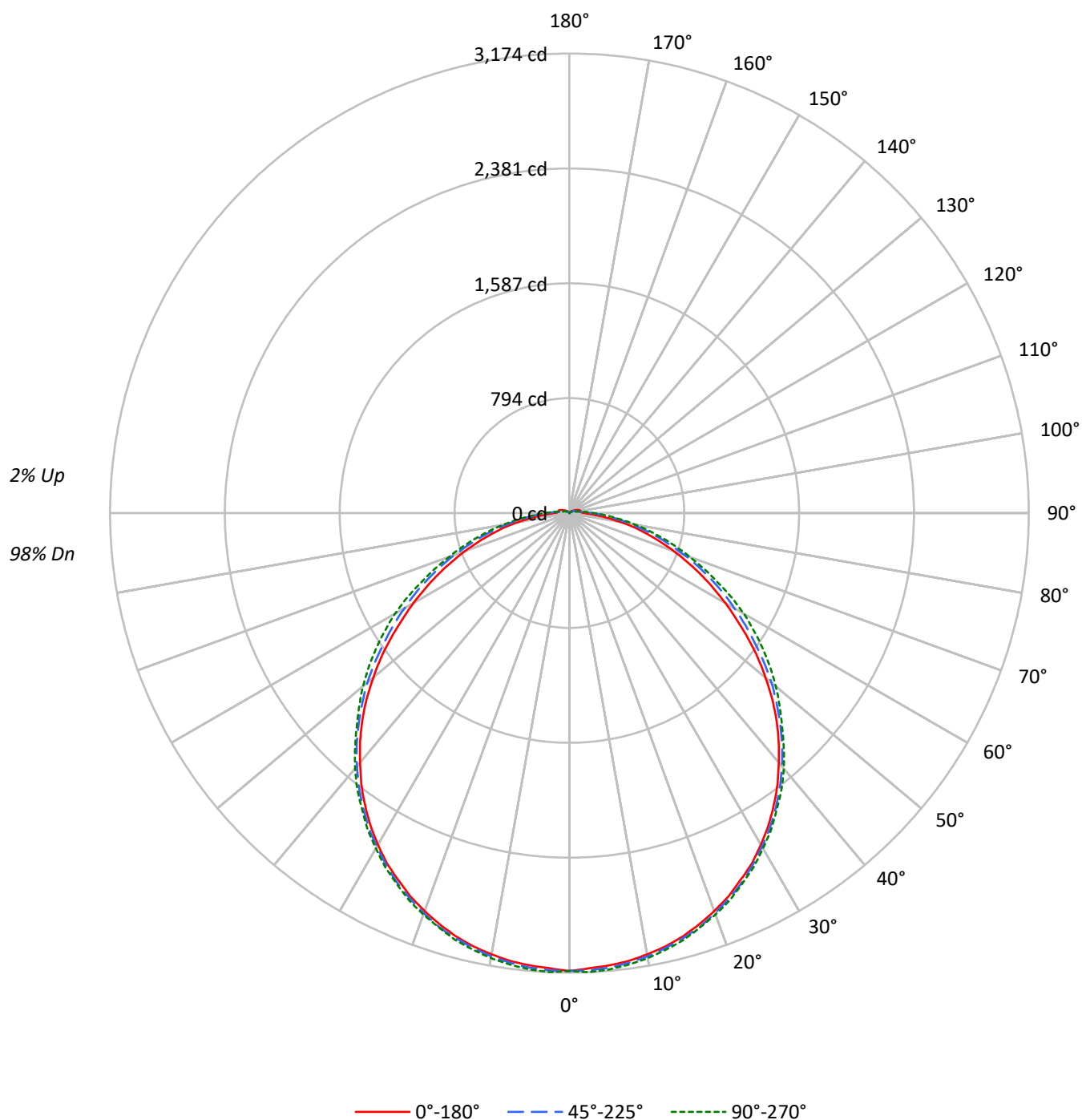
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

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

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	118	118	118	118	115	115	115	115		110	110	110		105	105	105		100	100	100
1	108	103	98	94	105	100	96	92		95	92	89		91	88	86		87	85	83
2	98	89	82	77	95	87	81	75		83	78	73		80	75	71		76	73	69
3	89	78	70	64	86	77	69	63		73	67	61		70	65	60		67	63	59
4	82	69	61	54	79	68	60	53		65	58	52		63	56	51		60	55	50
5	75	62	53	46	73	61	52	46		58	51	45		56	50	45		54	48	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		49	43	39
7	64	51	42	36	62	50	41	36		48	41	35		46	40	35		45	39	34
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		41	35	31
9	56	42	34	29	54	42	34	29		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		37	30	26		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15091	15091	15091
5°	14867	14777	14854
10°	14684	14432	14533
15°	14487	14079	14200
20°	14234	13698	13823
25°	13944	13289	13427
30°	13635	12828	13005
35°	13230	12333	12523
40°	12732	11776	12022
45°	12198	11132	11386
50°	11488	10441	10837
55°	10684	9604	10195
60°	9836	8792	9489
65°	8967	7951	8509
70°	8043	6999	7548
75°	7059	5962	6581
80°	5879	4894	5531
85°	4365	3801	4353



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	3.2
10°-20°	857.2	9.3
20°-30°	1296.4	14.1
30°-40°	1552.8	16.8
40°-50°	1585.9	17.2
50°-60°	1404.1	15.2
60°-70°	1064.3	11.5
70°-80°	656.1	7.1
80°-90°	290.2	3.1
90°-100°	104.3	1.1
100°-110°	55.9	0.6
110°-120°	33.3	0.4
120°-130°	15.4	0.2
130°-140°	4.8	0.1
140°-150°	0.9	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2453.0	26.6
0°-40°	4005.8	43.4
0°-60°	6995.9	75.9
0°-90°	9006.5	97.7
90°-120°	193.5	2.1
90°-150°	214.6	2.3
90°-180°	215.0	2.3
0°-180°	9222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3136	3143	3152	3161	3164	298
15°	3027	3030	3040	3046	3052	854
25°	2797	2805	2816	2825	2825	1290
35°	2462	2470	2485	2502	2498	1539
45°	2025	2036	2059	2082	2077	1558
55°	1504	1534	1564	1613	1630	1346
65°	999	1025	1079	1121	1127	990
75°	554	580	623	656	664	590
85°	189	226	266	289	289	193
90°	100	125	154	168	167	57
95°	82	82	90	98	98	66
105°	73	62	46	42	43	76
115°	48	39	30	26	27	48
125°	26	20	14	12	15	23
135°	11	9	3	3	5	9
145°	4	2	1	0	0	3
155°	1	1	1	1	0	1
165°	2	2	1	1	1	1
175°	2	2	2	1	1	0
180°	2	2	2	2	2	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3162.7	3162.7	3162.7	3162.7	3162.7
2.5°	3147.1	3150.8	3160.8	3170.7	3173.9
5°	3136.5	3142.7	3152.1	3160.8	3163.9
7.5°	3121.0	3125.9	3134.0	3142.7	3145.2
10°	3094.8	3100.4	3109.1	3117.2	3121.6
12.5°	3065.6	3068.1	3076.2	3085.5	3088.0
15°	3027.0	3029.5	3039.5	3046.3	3052.5
17.5°	2979.1	2981.6	2996.5	2999.6	3000.3
20°	2925.6	2929.3	2941.2	2946.8	2951.1
22.5°	2867.1	2872.1	2881.4	2888.3	2894.5
25°	2796.8	2804.9	2816.1	2824.8	2824.8
27.5°	2729.0	2730.2	2740.8	2750.1	2756.4
30°	2646.2	2647.5	2661.8	2672.4	2674.9
32.5°	2558.5	2563.5	2578.4	2589.6	2592.7
35°	2462.1	2470.1	2485.1	2502.5	2497.5
37.5°	2361.9	2366.2	2387.4	2401.7	2407.3
40°	2249.9	2262.3	2284.1	2299.7	2304.0
42.5°	2140.4	2151.6	2175.2	2190.2	2192.0
45°	2024.6	2035.8	2058.9	2082.5	2076.9
47.5°	1899.6	1917.0	1940.0	1964.9	1969.3
50°	1768.9	1794.4	1822.4	1843.0	1861.6
52.5°	1640.7	1661.3	1693.6	1730.3	1747.8
55°	1504.5	1534.4	1563.6	1612.8	1629.5
57.5°	1369.5	1405.6	1441.6	1495.8	1510.7
60°	1245.0	1273.6	1317.2	1370.1	1391.9
62.5°	1118.1	1151.1	1199.6	1248.1	1263.1
65°	998.6	1024.8	1078.9	1120.6	1126.8
67.5°	878.6	909.7	960.7	1004.2	1006.7
70°	766.6	794.6	843.7	880.4	884.2
72.5°	658.3	686.9	728.6	765.9	773.4
75°	554.4	580.5	622.8	655.8	664.5
77.5°	462.3	481.6	518.9	556.2	559.4
80°	359.6	382.0	428.7	459.8	464.8
82.5°	273.8	300.5	342.2	370.2	371.5
85°	189.1	226.5	266.3	289.3	289.3
87.5°	130.7	169.9	205.3	220.9	222.7
90°	99.6	125.1	154.3	168.0	167.4
92.5°	86.5	98.3	117.0	128.2	126.3
95°	81.5	81.5	89.6	98.3	97.7
97.5°	79.0	74.0	70.9	76.5	75.9
100°	78.4	69.7	58.5	61.0	61.6
102.5°	76.5	66.0	51.0	50.4	51.0
105°	72.8	62.2	46.0	42.3	42.9
107.5°	67.8	57.2	42.3	37.3	38.0
110°	61.6	51.0	38.6	33.6	33.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.4	44.8	34.8	29.9	30.5
115°	47.9	38.6	30.5	26.1	27.4
117.5°	41.7	33.6	26.8	22.4	24.3
120°	35.5	29.2	21.8	18.7	21.2
122.5°	29.9	24.9	17.4	15.6	18.0
125°	25.5	20.5	13.7	12.4	14.9
127.5°	21.2	17.4	10.0	10.0	11.8
130°	17.4	14.3	6.2	7.5	9.3
132.5°	14.3	11.8	4.4	5.0	6.8
135°	11.2	9.3	3.1	3.1	5.0
137.5°	9.3	6.8	1.9	1.2	2.5
140°	6.8	5.0	1.2	0.0	0.6
142.5°	5.6	3.7	0.6	0.0	0.0
145°	3.7	2.5	0.6	0.0	0.0
147.5°	2.5	1.2	0.6	0.6	0.0
150°	1.2	1.2	0.6	0.6	0.0
152.5°	1.2	1.2	0.6	0.6	0.0
155°	1.2	1.2	1.2	0.6	0.0
157.5°	1.2	1.2	1.2	0.6	0.0
160°	1.2	1.2	1.2	0.6	0.6
162.5°	1.9	1.9	1.2	0.6	0.6
165°	1.9	1.9	1.2	0.6	0.6
167.5°	1.9	1.9	1.2	1.2	0.6
170°	1.9	1.9	1.2	0.6	0.6
172.5°	1.9	1.9	1.2	1.2	0.6
175°	1.9	1.9	1.9	1.2	0.6
177.5°	1.9	1.9	1.9	1.2	0.6
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)