

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-DR-L835-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 (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-DR-L835-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

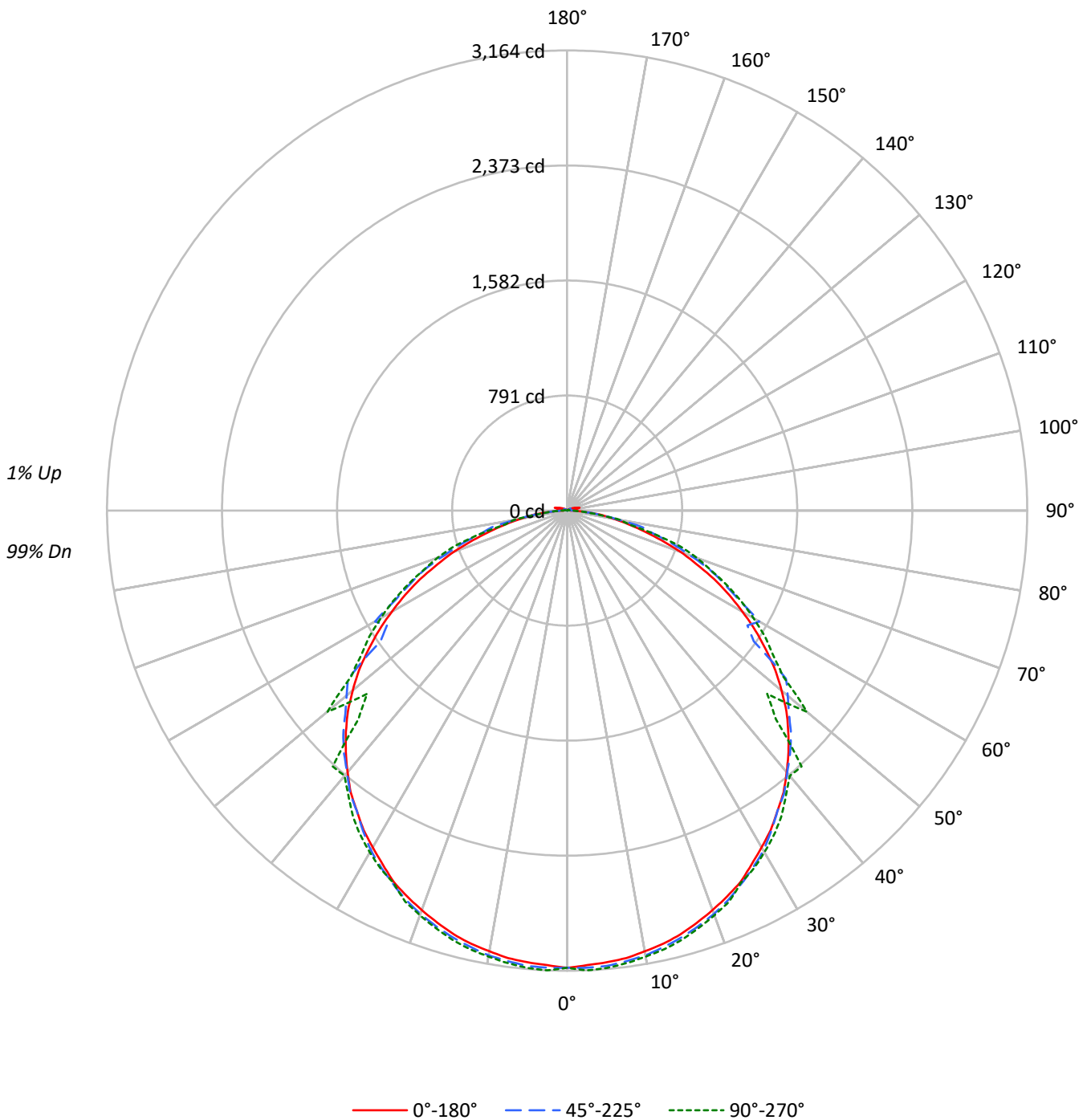
Lumens per Lamp: N/A
Luminaire Lumens: 9286.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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



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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°	14999	14999	14999
5°	14778	14732	14818
10°	14600	14413	14497
15°	14434	14075	14210
20°	14221	13742	13868
25°	14056	13369	13428
30°	13777	13005	13192
35°	13550	12515	12878
40°	13291	12129	12426
45°	12959	11768	11126
50°	12499	11344	12522
55°	11843	9624	10798
60°	10996	10181	10088
65°	9995	8771	9130
70°	8691	7446	8084
75°	6910	5886	6040
80°	5317	4029	4387
85°	3354	1918	1949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	3.2
10°-20°	857.5	9.2
20°-30°	1305.2	14.1
30°-40°	1590.0	17.1
40°-50°	1660.6	17.9
50°-60°	1519.2	16.4
60°-70°	1160.2	12.5
70°-80°	632.6	6.8
80°-90°	170.9	1.8
90°-100°	26.2	0.3
100°-110°	31.8	0.3
110°-120°	19.1	0.2
120°-130°	9.1	0.1
130°-140°	3.1	0.0
140°-150°	1.0	0.0
150°-160°	0.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2461.2	26.5
0°-40°	4051.1	43.6
0°-60°	7230.9	77.9
0°-90°	9194.6	99.0
90°-120°	77.1	0.8
90°-150°	90.2	1.0
90°-180°	91.0	1.0
0°-180°	9286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3144	3144	3144	3144	3144	
5°	3118	3131	3142	3153	3156	296
15°	3016	3028	3039	3050	3054	851
25°	2819	2828	2833	2841	2825	1297
35°	2522	2536	2522	2554	2568	1579
45°	2151	2161	2177	2288	2029	1658
55°	1668	1678	1567	1738	1726	1490
65°	1113	1147	1190	1194	1209	1098
75°	543	584	615	614	610	587
85°	145	146	134	130	130	159
90°	25	42	40	39	38	19
95°	24	22	23	19	19	28
105°	76	101	13	14	14	76
115°	38	19	25	9	10	38
125°	17	14	7	4	5	16
135°	8	6	3	2	2	6
145°	3	2	1	1	1	2
155°	1	1	1	1	1	0
165°	2	2	2	2	1	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°	3143.5	3143.5	3143.5	3143.5	3143.5
2.5°	3128.6	3136.6	3146.4	3160.3	3164.2
5°	3117.8	3130.6	3142.5	3153.4	3156.3
7.5°	3103.9	3119.8	3124.7	3138.5	3138.5
10°	3077.2	3095.0	3104.9	3113.8	3113.8
12.5°	3051.5	3064.4	3073.3	3084.2	3089.1
15°	3016.0	3027.8	3038.7	3049.6	3054.5
17.5°	2970.5	2989.3	2996.2	3005.1	3009.0
20°	2923.0	2940.8	2950.7	2958.6	2960.6
22.5°	2872.6	2886.5	2896.3	2899.3	2910.2
25°	2819.2	2828.1	2833.1	2841.0	2825.2
27.5°	2744.1	2760.9	2767.8	2760.9	2776.7
30°	2673.9	2690.7	2698.6	2700.6	2713.5
32.5°	2604.7	2616.6	2612.6	2627.5	2646.3
35°	2521.7	2535.5	2521.7	2554.3	2568.2
37.5°	2443.6	2450.5	2451.5	2484.1	2470.3
40°	2348.7	2357.6	2352.7	2373.4	2381.3
42.5°	2252.8	2260.7	2269.6	2285.4	2386.3
45°	2151.0	2160.9	2176.7	2288.4	2029.4
47.5°	2045.2	2047.2	2068.0	1897.0	1864.3
50°	1924.6	1923.6	1980.0	1801.1	2151.0
52.5°	1804.0	1803.0	1897.0	1982.0	1871.3
55°	1667.6	1677.5	1566.8	1737.8	1725.9
57.5°	1535.2	1544.1	1468.9	1587.6	1613.3
60°	1391.8	1426.4	1525.3	1478.8	1479.8
62.5°	1255.4	1286.1	1329.6	1344.4	1350.3
65°	1113.1	1146.7	1190.2	1194.1	1209.0
67.5°	961.8	1010.3	1062.7	1055.7	1069.6
70°	828.4	769.1	897.6	903.5	947.0
72.5°	678.1	749.3	759.2	632.6	814.5
75°	542.7	584.2	614.9	613.9	609.9
77.5°	430.0	457.7	531.8	478.4	433.0
80°	325.2	333.1	352.9	350.9	368.7
82.5°	245.2	233.3	240.2	237.2	209.6
85°	145.3	146.3	134.4	130.5	129.5
87.5°	60.3	67.2	65.2	62.3	67.2
90°	24.7	41.5	39.5	38.6	37.6
92.5°	27.7	29.7	27.7	23.7	20.8
95°	23.7	21.7	22.7	18.8	18.8
97.5°	32.6	17.8	17.8	15.8	14.8
100°	65.2	15.8	16.8	13.8	13.8
102.5°	87.0	16.8	14.8	13.8	14.8
105°	76.1	100.8	12.9	13.8	13.8
107.5°	64.3	59.3	11.9	12.9	13.8
110°	54.4	36.6	9.9	11.9	12.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.5	25.7	8.9	9.9	11.9
115°	37.6	18.8	24.7	8.9	9.9
117.5°	31.6	19.8	26.7	7.9	8.9
120°	25.7	40.5	13.8	6.9	6.9
122.5°	20.8	18.8	9.9	4.9	5.9
125°	16.8	13.8	6.9	4.0	4.9
127.5°	13.8	10.9	4.9	3.0	4.0
130°	11.9	9.9	3.0	3.0	3.0
132.5°	9.9	7.9	3.0	2.0	3.0
135°	7.9	5.9	3.0	2.0	2.0
137.5°	5.9	4.9	2.0	2.0	2.0
140°	4.9	3.0	1.0	1.0	1.0
142.5°	4.0	3.0	1.0	1.0	1.0
145°	3.0	2.0	1.0	1.0	1.0
147.5°	2.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0
162.5°	2.0	2.0	2.0	2.0	1.0
165°	2.0	2.0	2.0	2.0	1.0
167.5°	2.0	2.0	2.0	2.0	1.0
170°	2.0	2.0	2.0	2.0	1.0
172.5°	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)