

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: **VT4S-LD5-9-DR-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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: VT4S-LD5-9-DR-L835-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

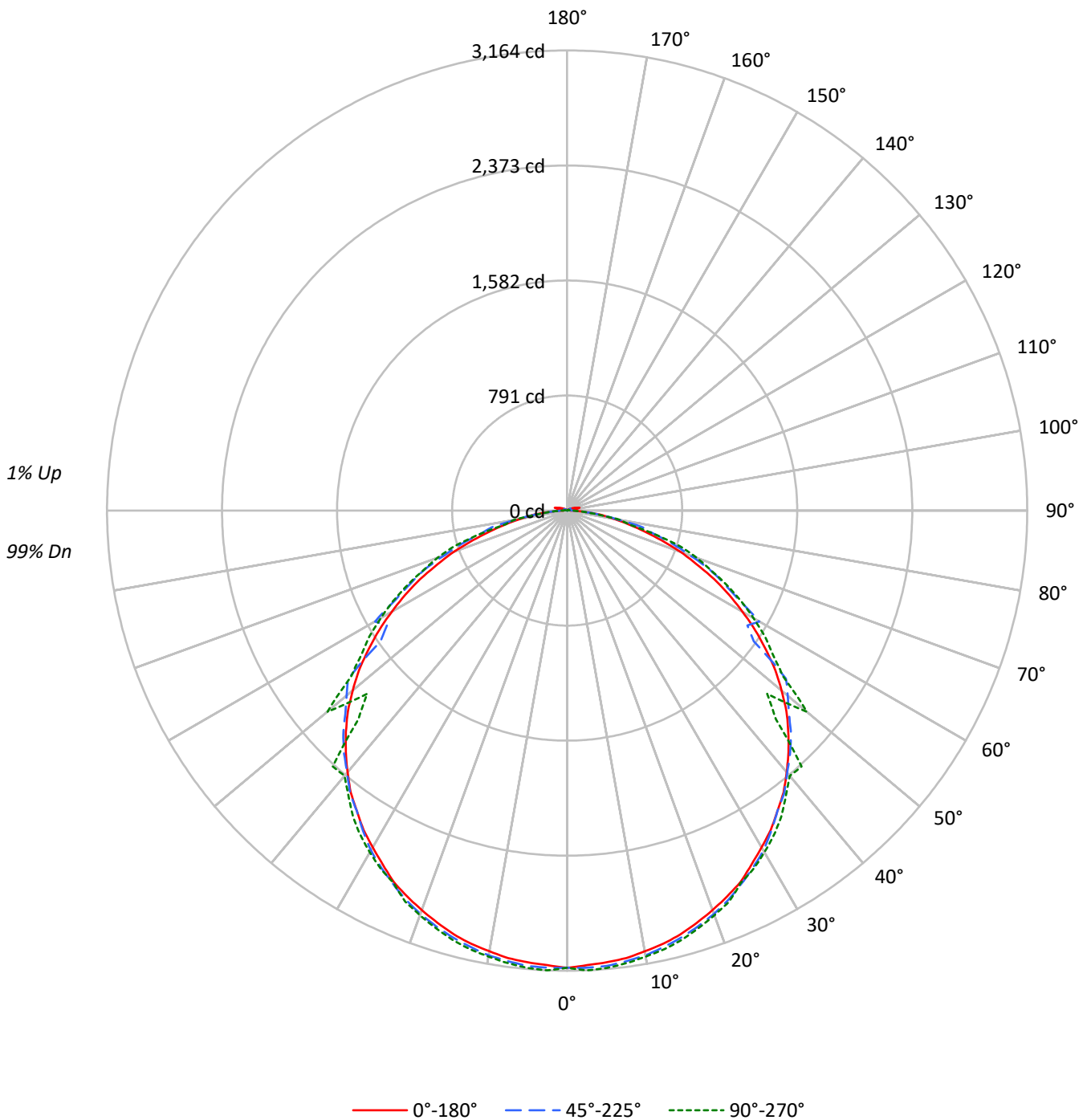
Lumens per Lamp: N/A
Luminaire Lumens: 9286.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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)