

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-L840-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-L840-CD1-U
Description: VT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

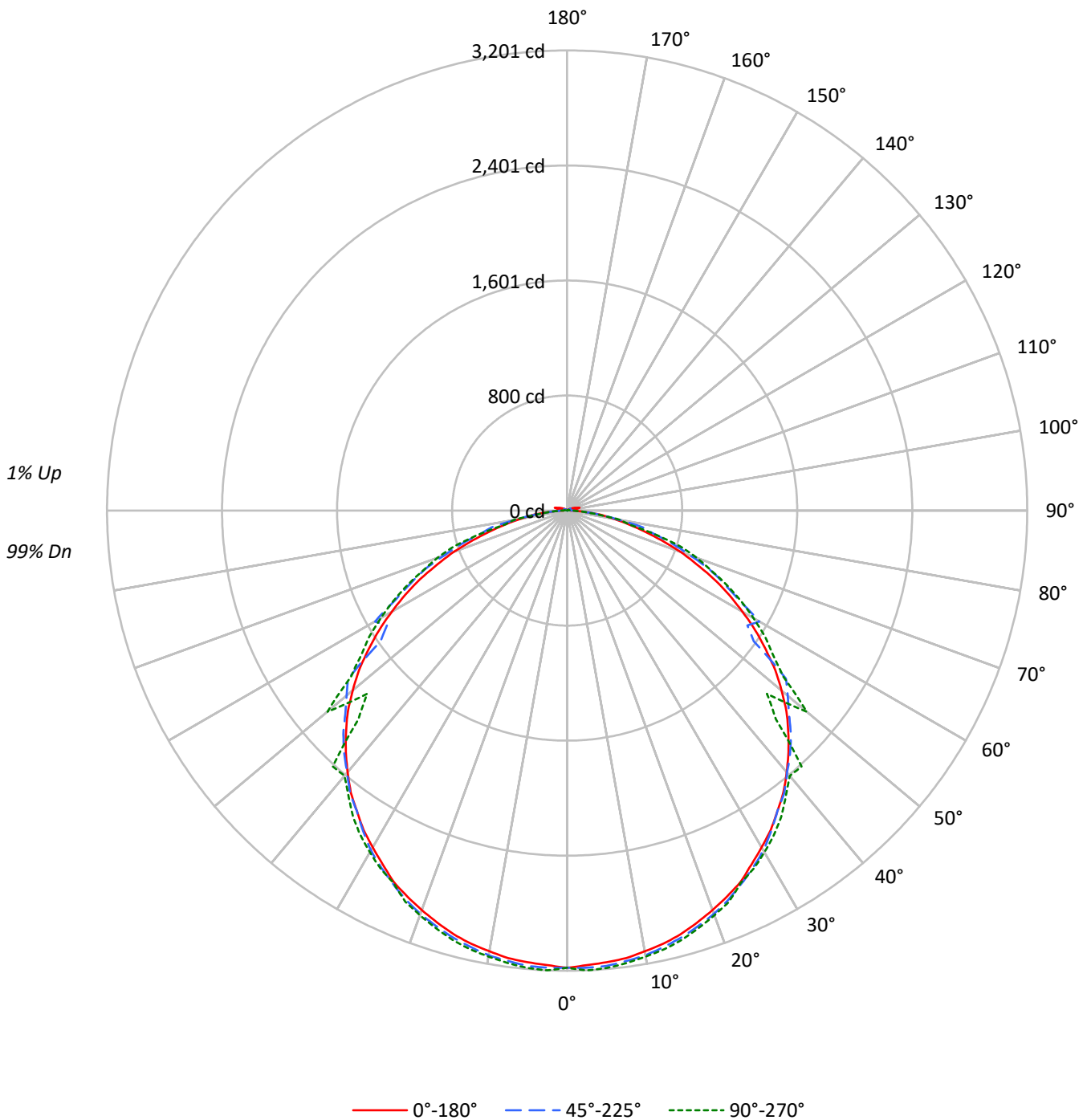
Lumens per Lamp: N/A
Luminaire Lumens: 9393.9 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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



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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°	15173	15173	15173
5°	14950	14903	14991
10°	14770	14581	14665
15°	14602	14238	14375
20°	14386	13902	14029
25°	14219	13524	13584
30°	13938	13157	13345
35°	13707	12660	13027
40°	13445	12270	12570
45°	13110	11905	11255
50°	12644	11476	12668
55°	11980	9736	10923
60°	11124	10299	10205
65°	10111	8873	9236
70°	8792	7533	8178
75°	6990	5954	6110
80°	5379	4075	4439
85°	3393	1941	1971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	3.2
10°-20°	867.4	9.2
20°-30°	1320.3	14.1
30°-40°	1608.4	17.1
40°-50°	1679.9	17.9
50°-60°	1536.9	16.4
60°-70°	1173.7	12.5
70°-80°	639.9	6.8
80°-90°	172.9	1.8
90°-100°	26.5	0.3
100°-110°	32.1	0.3
110°-120°	19.4	0.2
120°-130°	9.2	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°	2489.8	26.5
0°-40°	4098.2	43.6
0°-60°	7314.9	77.9
0°-90°	9301.5	99.0
90°-120°	78.0	0.8
90°-150°	91.3	1.0
90°-180°	92.0	1.0
0°-180°	9393.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3180	3180	3180	3180	3180	
5°	3154	3167	3179	3190	3193	300
15°	3051	3063	3074	3085	3090	861
25°	2852	2861	2866	2874	2858	1312
35°	2551	2565	2551	2584	2598	1598
45°	2176	2186	2202	2315	2053	1677
55°	1687	1697	1585	1758	1746	1508
65°	1126	1160	1204	1208	1223	1111
75°	549	591	622	621	617	594
85°	147	148	136	132	131	160
90°	25	42	40	39	38	19
95°	24	22	23	19	19	28
105°	77	102	13	14	14	77
115°	38	19	25	9	10	39
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°	3180	3180	3180	3180	3180
2.5°	3165	3173	3183	3197	3201
5°	3154	3167	3179	3190	3193
7.5°	3140	3156	3161	3175	3175
10°	3113	3131	3141	3150	3150
12.5°	3087	3100	3109	3120	3125
15°	3051	3063	3074	3085	3090
17.5°	3005	3024	3031	3040	3044
20°	2957	2975	2985	2993	2995
22.5°	2906	2920	2930	2933	2944
25°	2852	2861	2866	2874	2858
27.5°	2776	2793	2800	2793	2809
30°	2705	2722	2730	2732	2745
32.5°	2635	2647	2643	2658	2677
35°	2551	2565	2551	2584	2598
37.5°	2472	2479	2480	2513	2499
40°	2376	2385	2380	2401	2409
42.5°	2279	2287	2296	2312	2414
45°	2176	2186	2202	2315	2053
47.5°	2069	2071	2092	1919	1886
50°	1947	1946	2003	1822	2176
52.5°	1825	1824	1919	2005	1893
55°	1687	1697	1585	1758	1746
57.5°	1553	1562	1486	1606	1632
60°	1408	1443	1543	1496	1497
62.5°	1270	1301	1345	1360	1366
65°	1126	1160	1204	1208	1223
67.5°	973	1022	1075	1068	1082
70°	838	778	908	914	958
72.5°	686	758	768	640	824
75°	549	591	622	621	617
77.5°	435	463	538	484	438
80°	329	337	357	355	373
82.5°	248	236	243	240	212
85°	147	148	136	132	131
87.5°	61	68	66	63	68
90°	25	42	40	39	38
92.5°	28	30	28	24	21
95°	24	22	23	19	19
97.5°	33	18	18	16	15
100°	66	16	17	14	14
102.5°	88	17	15	14	15
105°	77	102	13	14	14
107.5°	65	60	12	13	14
110°	55	37	10	12	13



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45	26	9	10	12
115°	38	19	25	9	10
117.5°	32	20	27	8	9
120°	26	41	14	7	7
122.5°	21	19	10	5	6
125°	17	14	7	4	5
127.5°	14	11	5	3	4
130°	12	10	3	3	3
132.5°	10	8	3	2	3
135°	8	6	3	2	2
137.5°	6	5	2	2	2
140°	5	3	1	1	1
142.5°	4	3	1	1	1
145°	3	2	1	1	1
147.5°	2	1	1	1	1
150°	1	1	1	1	1
152.5°	1	1	1	1	1
155°	1	1	1	1	1
157.5°	1	1	1	1	1
160°	1	1	1	1	1
162.5°	2	2	2	2	1
165°	2	2	2	2	1
167.5°	2	2	2	2	1
170°	2	2	2	2	1
172.5°	2	2	2	2	2
175°	2	2	2	2	2
177.5°	2	2	2	2	2
180°	2	2	2	2	2

(END OF REPORT)