

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-LD5-18-PC-L835-CD2-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 (G3-1801-511-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT4S-LD5-18-PC-L835-CD2-U
Description: VT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

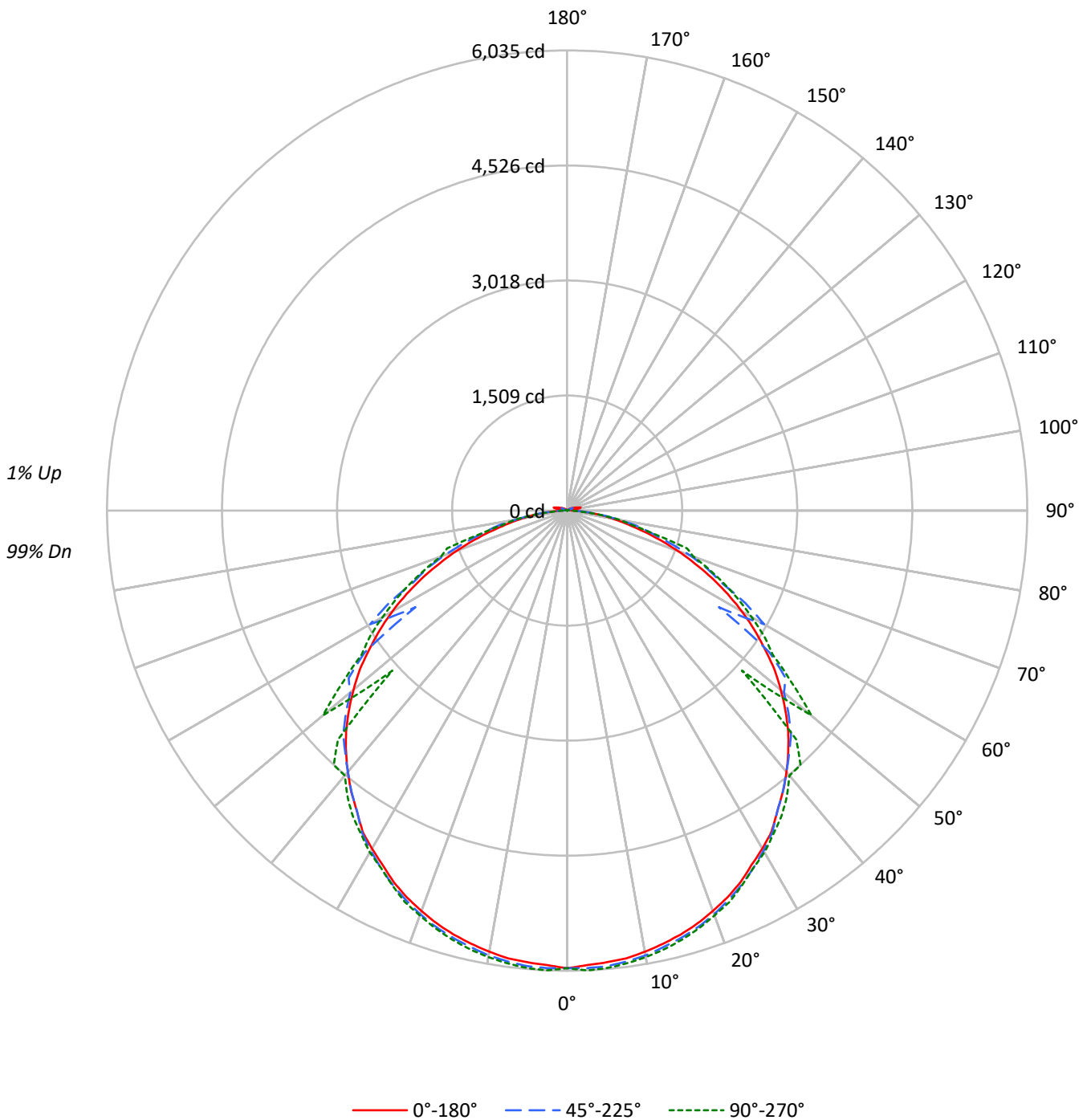
Lumens per Lamp: N/A
Luminaire Lumens: 17660.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 137.5
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	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°	28635	28635	28635
5°	28189	28117	28275
10°	27876	27492	27682
15°	27543	26859	27096
20°	27180	26232	26467
25°	26815	25551	25782
30°	26377	24824	25163
35°	25830	23851	24565
40°	25323	23059	23670
45°	24705	22444	23307
50°	23755	21266	24338
55°	22480	19907	20585
60°	20925	19903	19051
65°	18875	16394	17165
70°	16210	14166	15009
75°	12895	10901	11511
80°	9859	7757	8198
85°	6278	3966	3473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.6	3.2
10°-20°	1636.6	9.3
20°-30°	2492.5	14.1
30°-40°	3032.7	17.2
40°-50°	3158.7	17.9
50°-60°	2887.0	16.3
60°-70°	2198.5	12.4
70°-80°	1193.3	6.8
80°-90°	328.6	1.9
90°-100°	42.1	0.2
100°-110°	57.2	0.3
110°-120°	38.2	0.2
120°-130°	14.7	0.1
130°-140°	6.0	0.0
140°-150°	1.9	0.0
150°-160°	1.1	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	4698.8	26.6
0°-40°	7731.5	43.8
0°-60°	13777.2	78.0
0°-90°	17497.6	99.1
90°-120°	137.5	0.8
90°-150°	160.1	0.9
90°-180°	162.0	0.9
0°-180°	17660.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6001	6001	6001	6001	6001	
5°	5947	5972	5998	6020	6022	566
15°	5755	5782	5799	5821	5825	1625
25°	5378	5405	5415	5424	5424	2477
35°	4807	4841	4806	4865	4899	3014
45°	4101	4110	4151	4348	4251	3156
55°	3166	3175	3241	3460	3290	2831
65°	2102	2166	2225	2270	2273	2074
75°	1013	1126	1139	1162	1162	1091
85°	272	296	278	231	231	293
90°	54	78	73	67	65	38
95°	44	35	38	21	20	63
105°	157	203	20	21	19	160
115°	81	51	80	11	11	82
125°	36	27	11	2	4	34
135°	15	12	5	2	2	12
145°	5	2	2	2	1	3
155°	2	2	2	2	2	1
165°	4	4	4	4	4	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6001.3	6001.3	6001.3	6001.3	6001.3
2.5°	5967.1	5986.0	6006.0	6027.2	6035.4
5°	5947.1	5971.8	5997.7	6020.1	6022.5
7.5°	5922.4	5947.1	5964.8	5983.6	5989.5
10°	5875.3	5910.6	5922.4	5935.3	5945.9
12.5°	5817.6	5850.5	5861.1	5887.0	5892.9
15°	5755.1	5782.2	5798.7	5821.1	5824.6
17.5°	5678.6	5705.7	5724.5	5737.5	5745.7
20°	5586.7	5609.1	5632.7	5642.1	5650.3
22.5°	5491.4	5505.5	5527.9	5543.2	5557.3
25°	5378.3	5405.4	5414.8	5424.2	5424.2
27.5°	5239.3	5279.4	5286.4	5272.3	5284.1
30°	5119.2	5146.3	5151.0	5134.5	5175.7
32.5°	4992.0	4993.2	5007.3	5003.8	5030.9
35°	4807.1	4841.3	4806.0	4864.8	4899.0
37.5°	4649.3	4677.6	4648.2	4737.7	4731.8
40°	4475.0	4502.1	4472.7	4549.2	4536.3
42.5°	4292.5	4316.1	4309.0	4344.3	4529.2
45°	4100.6	4110.0	4151.2	4347.9	4251.3
47.5°	3883.9	3892.1	3935.7	3865.0	3109.0
50°	3657.8	3666.0	3711.9	2920.6	4180.6
52.5°	3429.3	3417.5	3610.7	3927.4	3717.8
55°	3165.5	3174.9	3240.9	3459.9	3290.3
57.5°	2912.3	2933.5	2360.0	3044.2	3060.7
60°	2648.5	2687.4	2981.8	2786.3	2794.6
62.5°	2375.3	2441.3	2636.7	2529.6	2537.8
65°	2102.1	2165.7	2224.6	2270.5	2272.9
67.5°	1811.2	1909.0	1984.3	1966.7	2014.9
70°	1545.1	1500.3	1707.6	1701.7	1758.2
72.5°	1269.5	1379.0	1402.6	1217.7	1649.9
75°	1012.8	1125.8	1138.8	1162.3	1162.3
77.5°	784.3	850.3	948.0	902.1	869.1
80°	603.0	621.8	679.5	700.7	688.9
82.5°	448.7	422.8	468.7	488.7	442.8
85°	272.0	295.6	277.9	230.8	230.8
87.5°	111.9	141.3	124.8	114.2	101.3
90°	54.2	77.7	73.0	67.1	64.8
92.5°	56.5	54.2	38.9	27.1	21.2
95°	43.6	35.3	37.7	21.2	20.0
97.5°	82.4	25.9	25.9	18.8	15.3
100°	153.1	22.4	23.6	18.8	13.0
102.5°	182.5	33.0	23.6	18.8	18.8
105°	156.6	202.6	20.0	21.2	18.8
107.5°	133.1	91.9	15.3	18.8	21.2
110°	111.9	64.8	13.0	17.7	20.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.2	48.3	13.0	13.0	17.7
115°	81.3	50.6	80.1	10.6	10.6
117.5°	68.3	80.1	35.3	8.2	10.6
120°	55.3	45.9	21.2	10.6	7.1
122.5°	43.6	34.2	14.1	3.5	7.1
125°	36.5	27.1	10.6	2.4	3.5
127.5°	29.4	22.4	7.1	2.4	2.4
130°	23.6	21.2	4.7	2.4	2.4
132.5°	20.0	15.3	13.0	2.4	2.4
135°	15.3	11.8	4.7	2.4	2.4
137.5°	11.8	9.4	3.5	2.4	2.4
140°	9.4	7.1	2.4	2.4	1.2
142.5°	7.1	4.7	2.4	2.4	1.2
145°	4.7	2.4	2.4	2.4	1.2
147.5°	3.5	2.4	2.4	2.4	2.4
150°	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4
157.5°	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4
162.5°	3.5	3.5	3.5	3.5	2.4
165°	3.5	3.5	3.5	3.5	3.5
167.5°	3.5	3.5	3.5	3.5	3.5
170°	3.5	3.5	3.5	3.5	3.5
172.5°	3.5	3.5	3.5	3.5	3.5
175°	3.5	3.5	3.5	3.5	3.5
177.5°	3.5	3.5	3.5	3.5	3.5
180°	3.5	3.5	3.5	3.5	3.5

(END OF REPORT)