

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-LD5-15-PCF-L840-CD2-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 (G3-1801-511-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-15-PCF-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

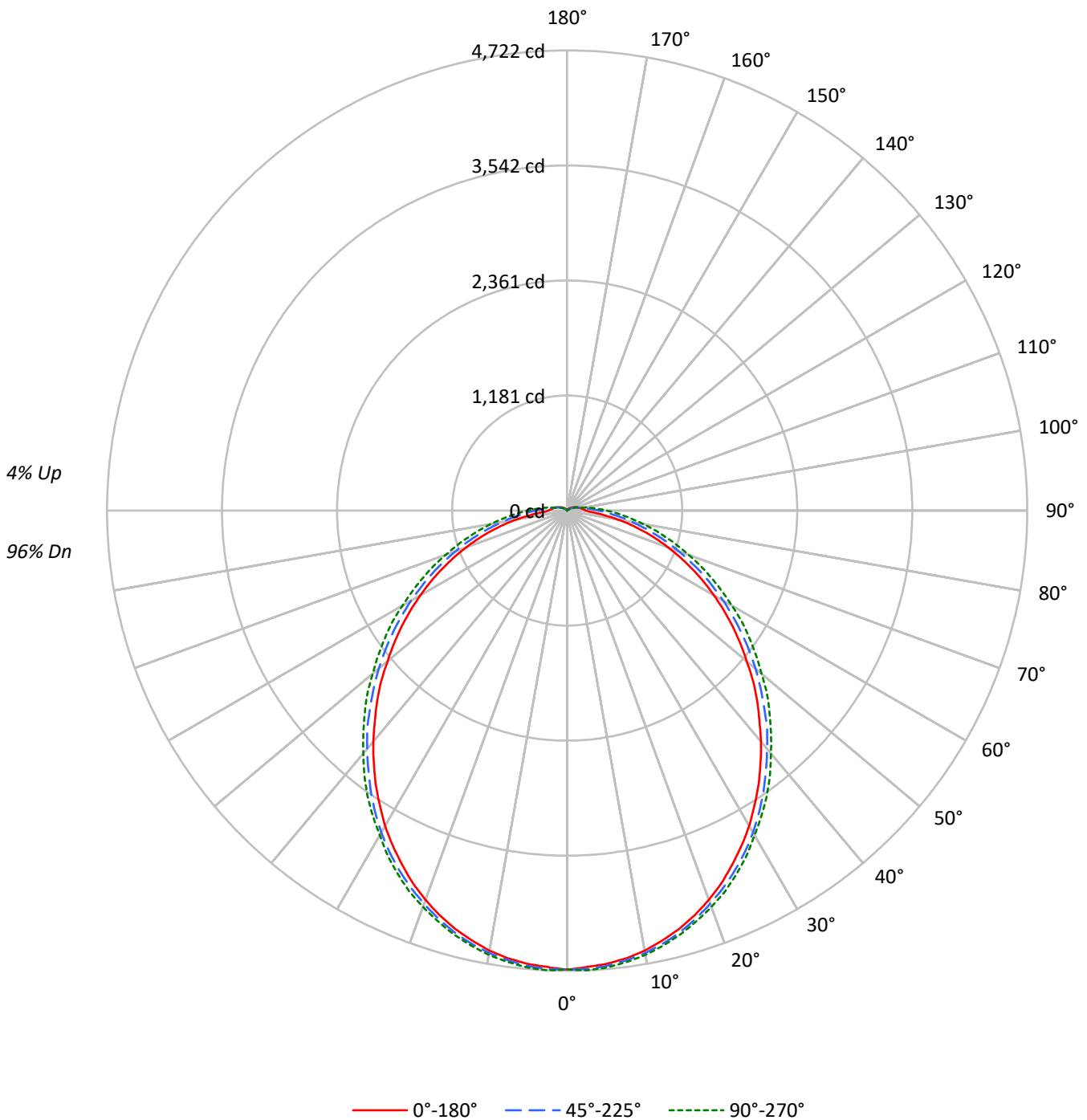
Lumens per Lamp: N/A
Luminaire Lumens: 13439.1 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 108.3
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22473	22473	22473
5°	22126	21986	22094
10°	21754	21395	21550
15°	21263	20741	20934
20°	20686	19993	20268
25°	19982	19224	19559
30°	19250	18385	18698
35°	18403	17439	17911
40°	17508	16461	16979
45°	16616	15451	16101
50°	15611	14466	15153
55°	14721	13414	14289
60°	13738	12348	13300
65°	12706	11253	12309
70°	11540	10096	11285
75°	10237	8902	10349
80°	8616	7774	9424
85°	6786	6780	8697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.9	3.3
10°-20°	1261.2	9.4
20°-30°	1873.2	13.9
30°-40°	2192.4	16.3
40°-50°	2203.1	16.4
50°-60°	1953.2	14.5
60°-70°	1515.4	11.3
70°-80°	988.6	7.4
80°-90°	516.3	3.8
90°-100°	246.9	1.8
100°-110°	128.6	1.0
110°-120°	70.0	0.5
120°-130°	33.0	0.2
130°-140°	10.1	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	3579.3	26.6
0°-40°	5771.7	42.9
0°-60°	9928.0	73.9
0°-90°	12948.3	96.3
90°-120°	445.5	3.3
90°-150°	490.0	3.6
90°-180°	491.0	3.7
0°-180°	13439.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4710	4710	4710	4710	4710	
5°	4668	4674	4690	4701	4706	443
15°	4443	4454	4478	4493	4500	1252
25°	4008	4033	4074	4106	4115	1846
35°	3425	3460	3514	3557	3572	2141
45°	2758	2795	2858	2913	2937	2125
55°	2073	2111	2184	2258	2284	1854
65°	1415	1454	1527	1609	1630	1403
75°	804	842	930	1016	1045	853
85°	294	376	475	558	578	291
90°	190	245	325	387	402	107
95°	165	176	219	264	275	130
105°	121	115	118	120	126	128
115°	82	68	69	65	70	82
125°	50	41	29	30	37	46
135°	26	20	5	6	11	21
145°	7	4	0	0	0	5
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4709.9	4709.9	4709.9	4709.9	4709.9
2.5°	4687.9	4693.9	4706.9	4719.9	4721.9
5°	4667.9	4673.9	4689.9	4700.9	4705.9
7.5°	4633.9	4639.9	4654.9	4669.9	4671.9
10°	4584.9	4592.9	4608.9	4625.9	4628.9
12.5°	4517.9	4530.9	4550.9	4565.9	4569.9
15°	4442.9	4453.9	4477.9	4492.9	4499.9
17.5°	4352.9	4366.9	4391.9	4409.9	4417.9
20°	4251.9	4265.9	4292.9	4323.9	4326.9
22.5°	4137.9	4159.9	4188.9	4218.9	4230.9
25°	4007.9	4032.9	4073.9	4105.9	4114.9
27.5°	3875.9	3899.9	3949.9	3982.9	3989.9
30°	3735.9	3761.9	3814.9	3840.9	3845.9
32.5°	3579.9	3609.9	3666.9	3702.9	3711.9
35°	3424.9	3459.9	3513.9	3556.9	3571.9
37.5°	3260.9	3299.9	3351.9	3406.9	3418.9
40°	3093.9	3134.9	3192.9	3243.9	3253.9
42.5°	2919.9	2964.9	3036.9	3077.9	3096.9
45°	2757.9	2794.9	2857.9	2912.9	2936.9
47.5°	2586.9	2623.9	2689.9	2754.9	2781.9
50°	2403.9	2453.9	2524.9	2587.9	2602.9
52.5°	2241.9	2289.9	2351.9	2421.9	2444.9
55°	2072.9	2110.9	2183.9	2257.9	2283.9
57.5°	1904.9	1945.9	2012.9	2087.9	2126.9
60°	1738.9	1777.9	1849.9	1927.9	1950.9
62.5°	1578.0	1618.0	1683.0	1767.9	1790.9
65°	1415.0	1454.0	1527.0	1609.0	1630.0
67.5°	1257.0	1294.0	1369.0	1456.0	1482.0
70°	1100.0	1148.0	1217.0	1298.0	1322.0
72.5°	952.0	994.0	1073.0	1155.0	1183.0
75°	804.0	842.0	930.0	1016.0	1045.0
77.5°	665.0	714.0	800.0	894.0	917.0
80°	527.0	579.0	681.0	771.0	792.0
82.5°	402.0	469.0	573.0	662.0	675.0
85°	294.0	376.0	475.0	558.0	578.0
87.5°	221.0	301.0	398.0	467.0	485.0
90°	190.0	245.0	325.0	387.0	402.0
92.5°	177.0	204.0	267.0	322.0	332.0
95°	165.0	176.0	219.0	264.0	275.0
97.5°	153.0	157.0	184.0	216.0	225.0
100°	142.0	143.0	155.0	178.0	184.0
102.5°	131.0	128.0	133.0	145.0	150.0
105°	121.0	115.0	118.0	120.0	126.0
107.5°	111.0	102.0	104.0	102.0	105.0
110°	101.0	89.0	91.0	88.0	91.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.0	78.0	80.0	76.0	80.0
115°	82.0	68.0	69.0	65.0	70.0
117.5°	74.0	61.0	58.0	55.0	61.0
120°	65.0	53.0	48.0	46.0	53.0
122.5°	58.0	47.0	38.0	38.0	45.0
125°	50.0	41.0	29.0	30.0	37.0
127.5°	44.0	35.0	21.0	24.0	30.0
130°	38.0	30.0	13.0	18.0	24.0
132.5°	31.0	24.0	8.0	12.0	17.0
135°	26.0	20.0	5.0	6.0	11.0
137.5°	21.0	15.0	2.0	1.0	5.0
140°	16.0	11.0	1.0	0.0	0.0
142.5°	11.0	7.0	0.0	0.0	0.0
145°	7.0	4.0	0.0	0.0	0.0
147.5°	4.0	2.0	0.0	0.0	0.0
150°	2.0	1.0	0.0	0.0	0.0
152.5°	2.0	1.0	0.0	0.0	0.0
155°	2.0	2.0	0.0	0.0	0.0
157.5°	2.0	2.0	1.0	0.0	0.0
160°	2.0	2.0	1.0	0.0	0.0
162.5°	2.0	2.0	1.0	0.0	0.0
165°	2.0	2.0	1.0	0.0	0.0
167.5°	2.0	2.0	1.0	0.0	0.0
170°	2.0	2.0	1.0	0.0	0.0
172.5°	2.0	2.0	1.0	0.0	0.0
175°	3.0	2.0	1.0	0.0	0.0
177.5°	3.0	2.0	1.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)