

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-LD5-18-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-LD5-18-PCF-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

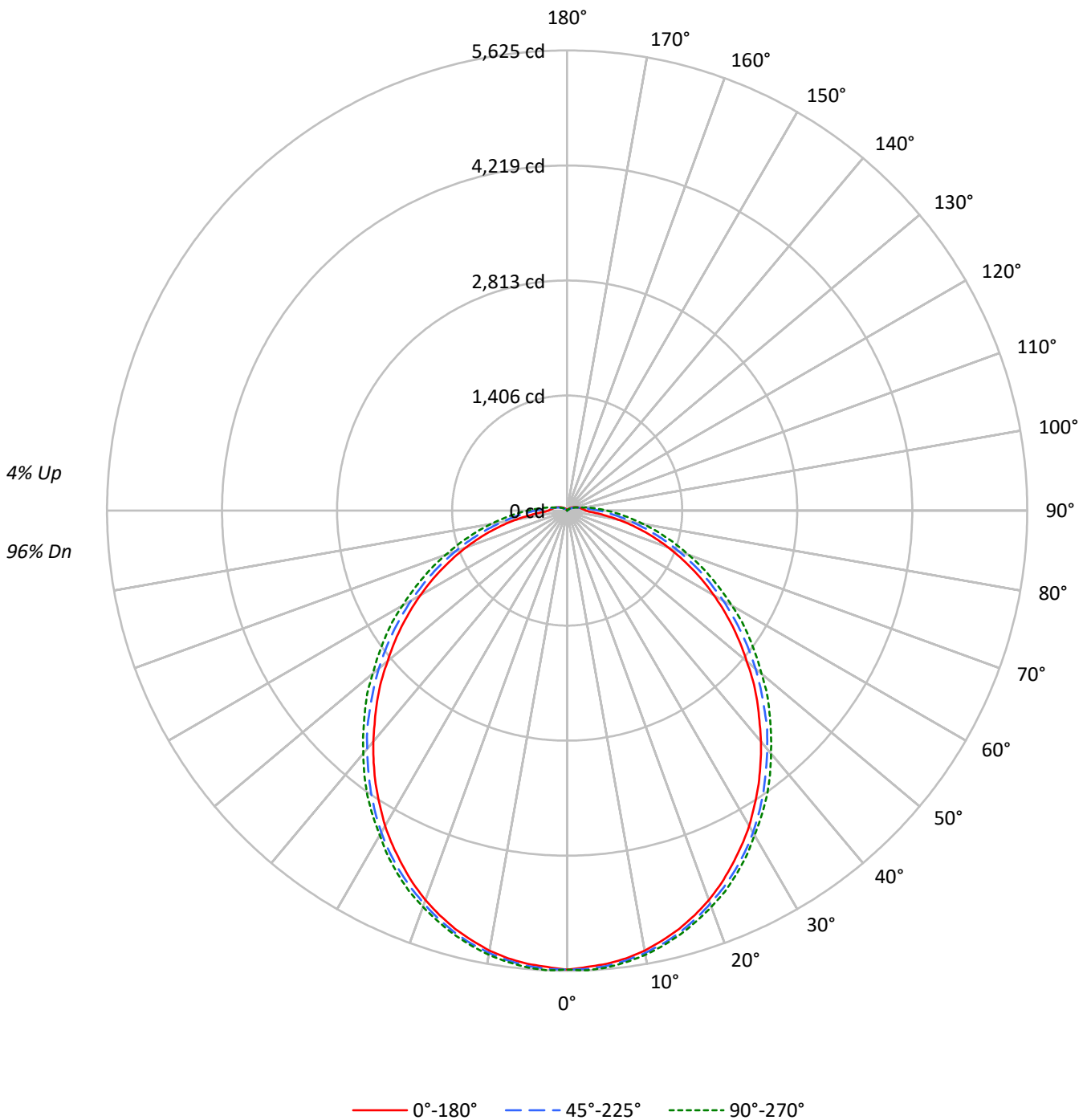
Lumens per Lamp: N/A
Luminaire Lumens: 16010.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26772	26772	26772
5°	26358	26192	26320
10°	25915	25487	25673
15°	25331	24709	24938
20°	24644	23817	24145
25°	23805	22901	23300
30°	22932	21902	22274
35°	21924	20775	21337
40°	20857	19610	20227
45°	19794	18408	19182
50°	18598	17233	18052
55°	17537	15981	17023
60°	16367	14710	15845
65°	15136	13406	14664
70°	13748	12028	13444
75°	12195	10605	12329
80°	10264	9262	11227
85°	8083	8077	10361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.0	3.3
10°-20°	1502.5	9.4
20°-30°	2231.6	13.9
30°-40°	2611.8	16.3
40°-50°	2624.6	16.4
50°-60°	2326.9	14.5
60°-70°	1805.3	11.3
70°-80°	1177.7	7.4
80°-90°	615.0	3.8
90°-100°	294.2	1.8
100°-110°	153.2	1.0
110°-120°	83.4	0.5
120°-130°	39.3	0.2
130°-140°	12.0	0.1
140°-150°	1.7	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	4264.1	26.6
0°-40°	6875.9	42.9
0°-60°	11827.4	73.9
0°-90°	15425.4	96.3
90°-120°	530.7	3.3
90°-150°	583.7	3.6
90°-180°	585.0	3.7
0°-180°	16010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5611	5611	5611	5611	5611	
5°	5561	5568	5587	5600	5606	528
15°	5293	5306	5334	5352	5361	1491
25°	4775	4804	4853	4891	4902	2199
35°	4080	4122	4186	4237	4255	2550
45°	3286	3330	3405	3470	3499	2532
55°	2470	2515	2602	2690	2721	2209
65°	1686	1732	1819	1917	1942	1671
75°	958	1003	1108	1210	1245	1016
85°	350	448	566	665	689	347
90°	226	292	387	461	479	127
95°	197	210	261	314	328	155
105°	144	137	141	143	150	153
115°	98	81	82	77	83	98
125°	60	49	34	36	44	55
135°	31	24	6	7	13	24
145°	8	5	0	0	0	6
155°	2	2	0	0	0	1
165°	2	2	1	0	0	1
175°	4	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°	5610.9	5610.9	5610.9	5610.9	5610.9
2.5°	5584.7	5591.8	5607.3	5622.8	5625.2
5°	5560.9	5568.0	5587.1	5600.2	5606.1
7.5°	5520.4	5527.5	5545.4	5563.2	5565.6
10°	5462.0	5471.5	5490.6	5510.8	5514.4
12.5°	5382.2	5397.7	5421.5	5439.4	5444.1
15°	5292.8	5305.9	5334.5	5352.4	5360.7
17.5°	5185.6	5202.3	5232.1	5253.5	5263.0
20°	5065.3	5082.0	5114.1	5151.1	5154.6
22.5°	4929.5	4955.7	4990.2	5026.0	5040.3
25°	4774.6	4804.4	4853.2	4891.4	4902.1
27.5°	4617.4	4646.0	4705.5	4744.8	4753.2
30°	4450.6	4481.6	4544.7	4575.7	4581.6
32.5°	4264.8	4300.5	4368.4	4411.3	4422.0
35°	4080.1	4121.8	4186.1	4237.4	4255.2
37.5°	3884.7	3931.2	3993.2	4058.7	4073.0
40°	3685.8	3734.6	3803.7	3864.5	3876.4
42.5°	3478.5	3532.1	3617.9	3666.7	3689.4
45°	3285.5	3329.6	3404.7	3470.2	3498.8
47.5°	3081.8	3125.9	3204.5	3282.0	3314.1
50°	2863.8	2923.4	3008.0	3083.0	3100.9
52.5°	2670.8	2728.0	2801.9	2885.3	2912.7
55°	2469.5	2514.8	2601.7	2689.9	2720.9
57.5°	2269.4	2318.2	2398.0	2487.4	2533.8
60°	2071.6	2118.1	2203.9	2296.8	2324.2
62.5°	1879.8	1927.5	2004.9	2106.2	2133.6
65°	1685.7	1732.1	1819.1	1916.8	1941.8
67.5°	1497.4	1541.5	1630.9	1734.5	1765.5
70°	1310.4	1367.6	1449.8	1546.3	1574.9
72.5°	1134.1	1184.1	1278.2	1375.9	1409.3
75°	957.8	1003.1	1107.9	1210.3	1244.9
77.5°	792.2	850.6	953.0	1065.0	1092.4
80°	627.8	689.7	811.3	918.5	943.5
82.5°	478.9	558.7	682.6	788.6	804.1
85°	350.2	447.9	565.9	664.7	688.6
87.5°	263.3	358.6	474.1	556.3	577.8
90°	226.3	291.9	387.2	461.0	478.9
92.5°	210.9	243.0	318.1	383.6	395.5
95°	196.6	209.7	260.9	314.5	327.6
97.5°	182.3	187.0	219.2	257.3	268.0
100°	169.2	170.4	184.6	212.0	219.2
102.5°	156.1	152.5	158.4	172.7	178.7
105°	144.1	137.0	140.6	143.0	150.1
107.5°	132.2	121.5	123.9	121.5	125.1
110°	120.3	106.0	108.4	104.8	108.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.4	92.9	95.3	90.5	95.3
115°	97.7	81.0	82.2	77.4	83.4
117.5°	88.2	72.7	69.1	65.5	72.7
120°	77.4	63.1	57.2	54.8	63.1
122.5°	69.1	56.0	45.3	45.3	53.6
125°	59.6	48.8	34.5	35.7	44.1
127.5°	52.4	41.7	25.0	28.6	35.7
130°	45.3	35.7	15.5	21.4	28.6
132.5°	36.9	28.6	9.5	14.3	20.3
135°	31.0	23.8	6.0	7.1	13.1
137.5°	25.0	17.9	2.4	1.2	6.0
140°	19.1	13.1	1.2	0.0	0.0
142.5°	13.1	8.3	0.0	0.0	0.0
145°	8.3	4.8	0.0	0.0	0.0
147.5°	4.8	2.4	0.0	0.0	0.0
150°	2.4	1.2	0.0	0.0	0.0
152.5°	2.4	1.2	0.0	0.0	0.0
155°	2.4	2.4	0.0	0.0	0.0
157.5°	2.4	2.4	1.2	0.0	0.0
160°	2.4	2.4	1.2	0.0	0.0
162.5°	2.4	2.4	1.2	0.0	0.0
165°	2.4	2.4	1.2	0.0	0.0
167.5°	2.4	2.4	1.2	0.0	0.0
170°	2.4	2.4	1.2	0.0	0.0
172.5°	2.4	2.4	1.2	0.0	0.0
175°	3.6	2.4	1.2	0.0	0.0
177.5°	3.6	2.4	1.2	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)