

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-LD5-12-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-LD5-12-PCF-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

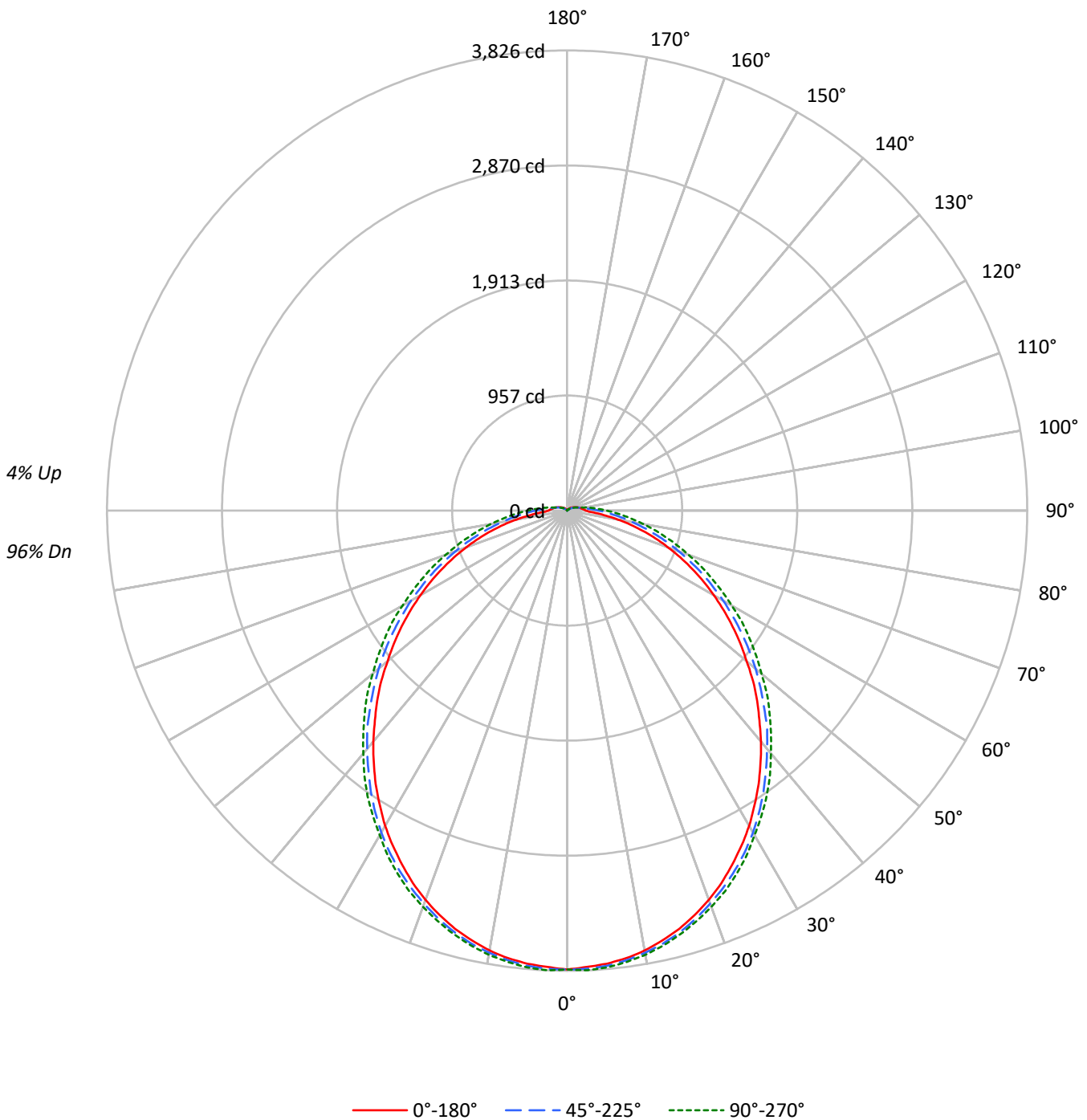
Lumens per Lamp: N/A
Luminaire Lumens: 10888.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
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°	18207	18207	18207
5°	17925	17812	17900
10°	17625	17333	17459
15°	17227	16804	16960
20°	16760	16198	16420
25°	16189	15575	15846
30°	15595	14895	15149
35°	14910	14129	14511
40°	14184	13336	13756
45°	13462	12518	13045
50°	12648	11720	12277
55°	11927	10868	11577
60°	11131	10004	10775
65°	10294	9117	9973
70°	9350	8180	9143
75°	8294	7212	8384
80°	6981	6298	7635
85°	5498	5492	7046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	3.3
10°-20°	1021.8	9.4
20°-30°	1517.6	13.9
30°-40°	1776.2	16.3
40°-50°	1784.9	16.4
50°-60°	1582.5	14.5
60°-70°	1227.8	11.3
70°-80°	800.9	7.4
80°-90°	418.3	3.8
90°-100°	200.1	1.8
100°-110°	104.2	1.0
110°-120°	56.7	0.5
120°-130°	26.7	0.2
130°-140°	8.2	0.1
140°-150°	1.2	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	2899.9	26.6
0°-40°	4676.1	42.9
0°-60°	8043.5	73.9
0°-90°	10490.4	96.3
90°-120°	360.9	3.3
90°-150°	397.0	3.6
90°-180°	398.0	3.7
0°-180°	10888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3816	3816	3816	3816	3816	
5°	3782	3787	3800	3808	3813	359
15°	3600	3608	3628	3640	3646	1014
25°	3247	3267	3301	3326	3334	1496
35°	2775	2803	2847	2882	2894	1734
45°	2234	2264	2315	2360	2379	1722
55°	1680	1710	1769	1829	1850	1502
65°	1146	1178	1237	1304	1321	1137
75°	651	682	753	823	847	691
85°	238	305	385	452	468	236
90°	154	198	263	314	326	86
95°	134	143	177	214	223	105
105°	98	93	96	97	102	104
115°	66	55	56	53	57	67
125°	40	33	24	24	30	37
135°	21	16	4	5	9	17
145°	6	3	0	0	0	4
155°	2	2	0	0	0	1
165°	2	2	1	0	0	0
175°	2	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°	3815.8	3815.8	3815.8	3815.8	3815.8
2.5°	3798.0	3802.9	3813.4	3823.9	3825.6
5°	3781.8	3786.7	3799.6	3808.5	3812.6
7.5°	3754.3	3759.1	3771.3	3783.4	3785.0
10°	3714.6	3721.0	3734.0	3747.8	3750.2
12.5°	3660.3	3670.8	3687.0	3699.2	3702.4
15°	3599.5	3608.4	3627.9	3640.0	3645.7
17.5°	3526.6	3537.9	3558.2	3572.8	3579.3
20°	3444.8	3456.1	3478.0	3503.1	3505.5
22.5°	3352.4	3370.2	3393.7	3418.0	3427.8
25°	3247.1	3267.4	3300.6	3326.5	3333.8
27.5°	3140.2	3159.6	3200.1	3226.8	3232.5
30°	3026.7	3047.8	3090.7	3111.8	3115.9
32.5°	2900.4	2924.7	2970.8	3000.0	3007.3
35°	2774.8	2803.1	2846.9	2881.7	2893.9
37.5°	2641.9	2673.5	2715.6	2760.2	2769.9
40°	2506.6	2539.8	2586.8	2628.1	2636.2
42.5°	2365.7	2402.1	2460.4	2493.7	2509.1
45°	2234.4	2264.4	2315.4	2360.0	2379.4
47.5°	2095.9	2125.8	2179.3	2232.0	2253.9
50°	1947.6	1988.1	2045.6	2096.7	2108.8
52.5°	1816.4	1855.3	1905.5	1962.2	1980.8
55°	1679.5	1710.2	1769.4	1829.3	1850.4
57.5°	1543.3	1576.6	1630.8	1691.6	1723.2
60°	1408.9	1440.5	1498.8	1562.0	1580.6
62.5°	1278.4	1310.8	1363.5	1432.4	1451.0
65°	1146.4	1178.0	1237.1	1303.5	1320.6
67.5°	1018.4	1048.3	1109.1	1179.6	1200.7
70°	891.2	930.1	986.0	1051.6	1071.0
72.5°	771.3	805.3	869.3	935.7	958.4
75°	651.4	682.2	753.4	823.1	846.6
77.5°	538.8	578.5	648.1	724.3	742.9
80°	427.0	469.1	551.7	624.6	641.6
82.5°	325.7	380.0	464.2	536.3	546.9
85°	238.2	304.6	384.8	452.1	468.3
87.5°	179.0	243.9	322.4	378.3	392.9
90°	153.9	198.5	263.3	313.5	325.7
92.5°	143.4	165.3	216.3	260.9	269.0
95°	133.7	142.6	177.4	213.9	222.8
97.5°	124.0	127.2	149.1	175.0	182.3
100°	115.0	115.9	125.6	144.2	149.1
102.5°	106.1	103.7	107.8	117.5	121.5
105°	98.0	93.2	95.6	97.2	102.1
107.5°	89.9	82.6	84.3	82.6	85.1
110°	81.8	72.1	73.7	71.3	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.7	63.2	64.8	61.6	64.8
115°	66.4	55.1	55.9	52.7	56.7
117.5°	60.0	49.4	47.0	44.6	49.4
120°	52.7	42.9	38.9	37.3	42.9
122.5°	47.0	38.1	30.8	30.8	36.5
125°	40.5	33.2	23.5	24.3	30.0
127.5°	35.6	28.4	17.0	19.4	24.3
130°	30.8	24.3	10.5	14.6	19.4
132.5°	25.1	19.4	6.5	9.7	13.8
135°	21.1	16.2	4.1	4.9	8.9
137.5°	17.0	12.2	1.6	0.8	4.1
140°	13.0	8.9	0.8	0.0	0.0
142.5°	8.9	5.7	0.0	0.0	0.0
145°	5.7	3.2	0.0	0.0	0.0
147.5°	3.2	1.6	0.0	0.0	0.0
150°	1.6	0.8	0.0	0.0	0.0
152.5°	1.6	0.8	0.0	0.0	0.0
155°	1.6	1.6	0.0	0.0	0.0
157.5°	1.6	1.6	0.8	0.0	0.0
160°	1.6	1.6	0.8	0.0	0.0
162.5°	1.6	1.6	0.8	0.0	0.0
165°	1.6	1.6	0.8	0.0	0.0
167.5°	1.6	1.6	0.8	0.0	0.0
170°	1.6	1.6	0.8	0.0	0.0
172.5°	1.6	1.6	0.8	0.0	0.0
175°	2.4	1.6	0.8	0.0	0.0
177.5°	2.4	1.6	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)