

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: P237807

Luminaire Tested: **4VRVT2-LD5-6-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VRVT2-LD5-6-FR50-UNV-L840-CD1-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6136.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

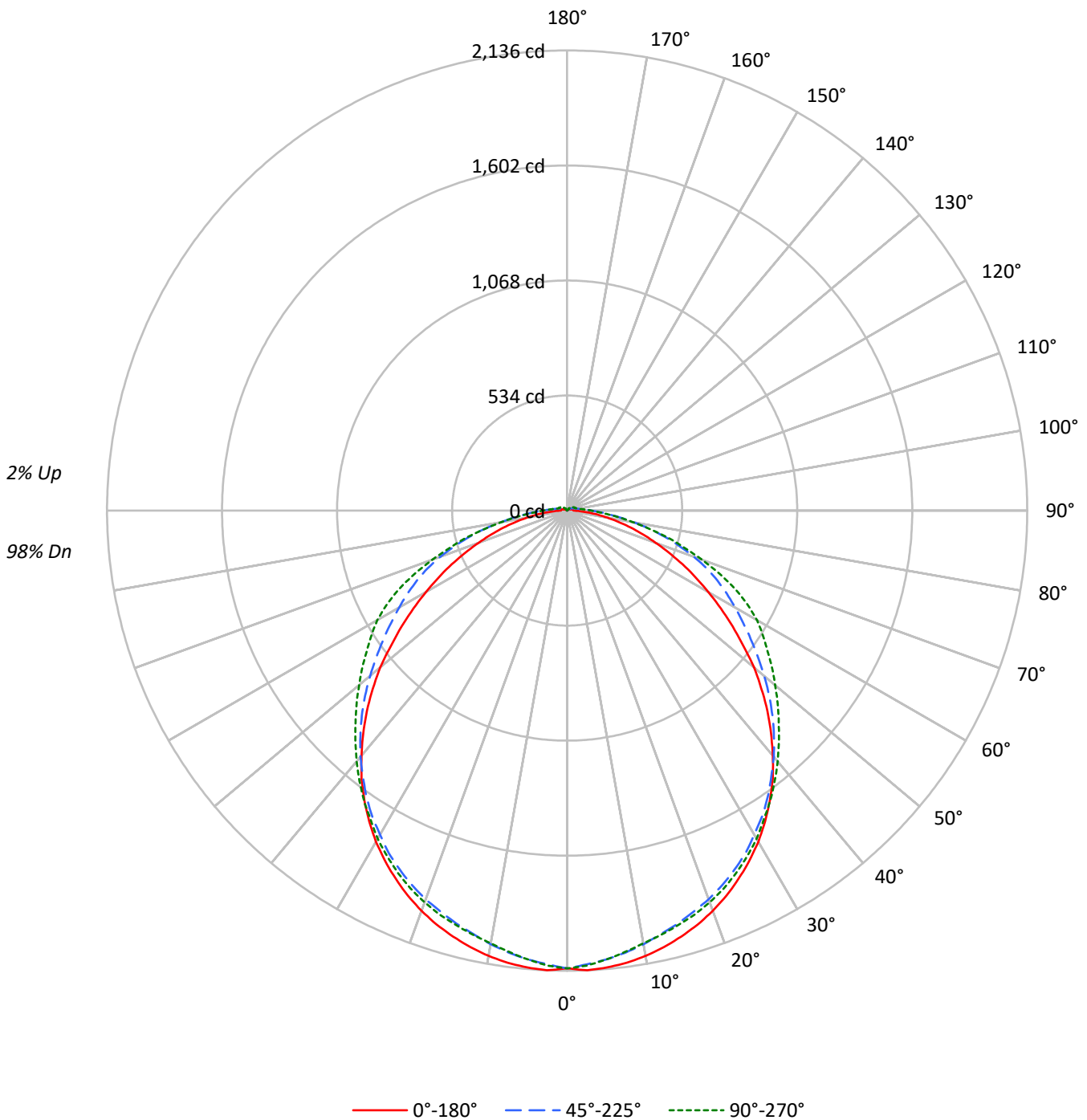
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	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	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10979	10979	10979
5°	11003	10605	10542
10°	10935	10246	10108
15°	10833	9916	9781
20°	10714	9631	9488
25°	10549	9334	9162
30°	10350	8992	8800
35°	10068	8645	8407
40°	9690	8238	8011
45°	9238	7792	7611
50°	8684	7300	7248
55°	7993	6809	6926
60°	7316	6382	6668
65°	6654	6011	6131
70°	5934	5472	5236
75°	5315	4696	4306
80°	4584	3741	3191
85°	3824	2818	2268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.4	3.2
10°-20°	565.7	9.2
20°-30°	853.6	13.9
30°-40°	1018.6	16.6
40°-50°	1038.6	16.9
50°-60°	929.8	15.2
60°-70°	735.1	12.0
70°-80°	454.8	7.4
80°-90°	191.4	3.1
90°-100°	68.2	1.1
100°-110°	36.2	0.6
110°-120°	23.8	0.4
120°-130°	13.8	0.2
130°-140°	6.1	0.1
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1618.7	26.4
0°-40°	2637.3	43.0
0°-60°	4605.8	75.1
0°-90°	5987.0	97.6
90°-120°	128.2	2.1
90°-150°	149.0	2.4
90°-180°	149.0	2.4
0°-180°	6136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2129	2113	2092	2099	2092	202
15°	2047	2014	1985	1997	1992	578
25°	1885	1845	1839	1859	1857	868
35°	1641	1611	1624	1644	1644	1025
45°	1315	1305	1348	1382	1389	1012
55°	938	959	1041	1115	1135	840
65°	591	632	770	849	860	587
75°	306	370	467	485	484	326
85°	94	147	191	192	184	97
90°	31	77	114	115	111	20
95°	28	43	71	73	71	23
105°	22	21	38	43	42	23
115°	12	11	26	35	35	12
125°	5	3	16	25	28	5
135°	2	2	6	14	17	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2124.9	2124.9	2124.9	2124.9	2124.9
2.5°	2135.9	2123.9	2107.9	2118.9	2113.9
5°	2128.9	2112.9	2091.9	2098.9	2091.9
7.5°	2116.9	2096.9	2069.9	2072.9	2065.9
10°	2098.9	2074.9	2043.9	2046.9	2039.9
12.5°	2075.9	2046.9	2012.9	2023.9	2016.9
15°	2046.9	2013.9	1984.9	1996.9	1991.9
17.5°	2014.9	1978.9	1951.9	1970.9	1966.9
20°	1976.9	1936.9	1919.9	1937.9	1934.9
22.5°	1933.9	1890.9	1881.9	1901.9	1898.9
25°	1884.9	1844.9	1838.9	1858.9	1856.9
27.5°	1831.9	1789.9	1792.9	1809.9	1808.9
30°	1774.9	1737.9	1736.9	1759.9	1758.9
32.5°	1710.9	1673.9	1683.9	1701.9	1698.9
35°	1640.9	1610.9	1623.9	1643.9	1643.9
37.5°	1567.9	1539.9	1556.9	1577.9	1582.9
40°	1484.9	1463.9	1491.9	1516.9	1519.9
42.5°	1400.9	1386.9	1420.9	1448.9	1454.9
45°	1314.9	1304.9	1347.9	1381.9	1388.9
47.5°	1222.9	1222.9	1271.9	1312.9	1325.9
50°	1131.9	1131.9	1193.9	1244.9	1259.9
52.5°	1030.9	1044.9	1115.9	1176.9	1198.9
55°	938.0	959.0	1040.9	1114.9	1134.9
57.5°	846.0	872.0	968.0	1053.9	1076.9
60°	757.0	792.0	900.0	991.9	1017.9
62.5°	673.0	710.0	835.0	925.0	943.0
65°	591.0	632.0	770.0	849.0	860.0
67.5°	512.0	565.0	702.0	762.0	766.0
70°	436.0	498.0	625.0	670.0	664.0
72.5°	370.0	432.0	546.0	577.0	567.0
75°	306.0	370.0	467.0	485.0	484.0
77.5°	246.0	309.0	390.0	400.0	390.0
80°	189.0	252.0	314.0	319.0	310.0
82.5°	141.0	195.0	247.0	250.0	245.0
85°	94.0	147.0	191.0	192.0	184.0
87.5°	57.0	107.0	146.0	148.0	142.0
90°	31.0	77.0	114.0	115.0	111.0
92.5°	29.0	56.0	88.0	90.0	88.0
95°	28.0	43.0	71.0	73.0	71.0
97.5°	28.0	35.0	58.0	61.0	59.0
100°	26.0	29.0	49.0	52.0	51.0
102.5°	25.0	24.0	43.0	47.0	45.0
105°	22.0	21.0	38.0	43.0	42.0
107.5°	20.0	18.0	35.0	40.0	39.0
110°	17.0	16.0	32.0	38.0	38.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.0	13.0	29.0	36.0	36.0
115°	12.0	11.0	26.0	35.0	35.0
117.5°	10.0	9.0	24.0	33.0	34.0
120°	8.0	7.0	21.0	30.0	32.0
122.5°	7.0	5.0	18.0	28.0	30.0
125°	5.0	3.0	16.0	25.0	28.0
127.5°	4.0	3.0	13.0	22.0	25.0
130°	3.0	2.0	11.0	20.0	22.0
132.5°	3.0	2.0	8.0	17.0	19.0
135°	2.0	2.0	6.0	14.0	17.0
137.5°	2.0	1.0	4.0	11.0	14.0
140°	2.0	1.0	2.0	9.0	11.0
142.5°	1.0	1.0	1.0	6.0	8.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)