

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: P233287

Luminaire Tested: **4VRVT3-LD5-6-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT3-LD5-6-G-UNV-L840-CD1-U
Description: 4FT VRVT3 GENERAL APPLICATION, 6000LM
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6033.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

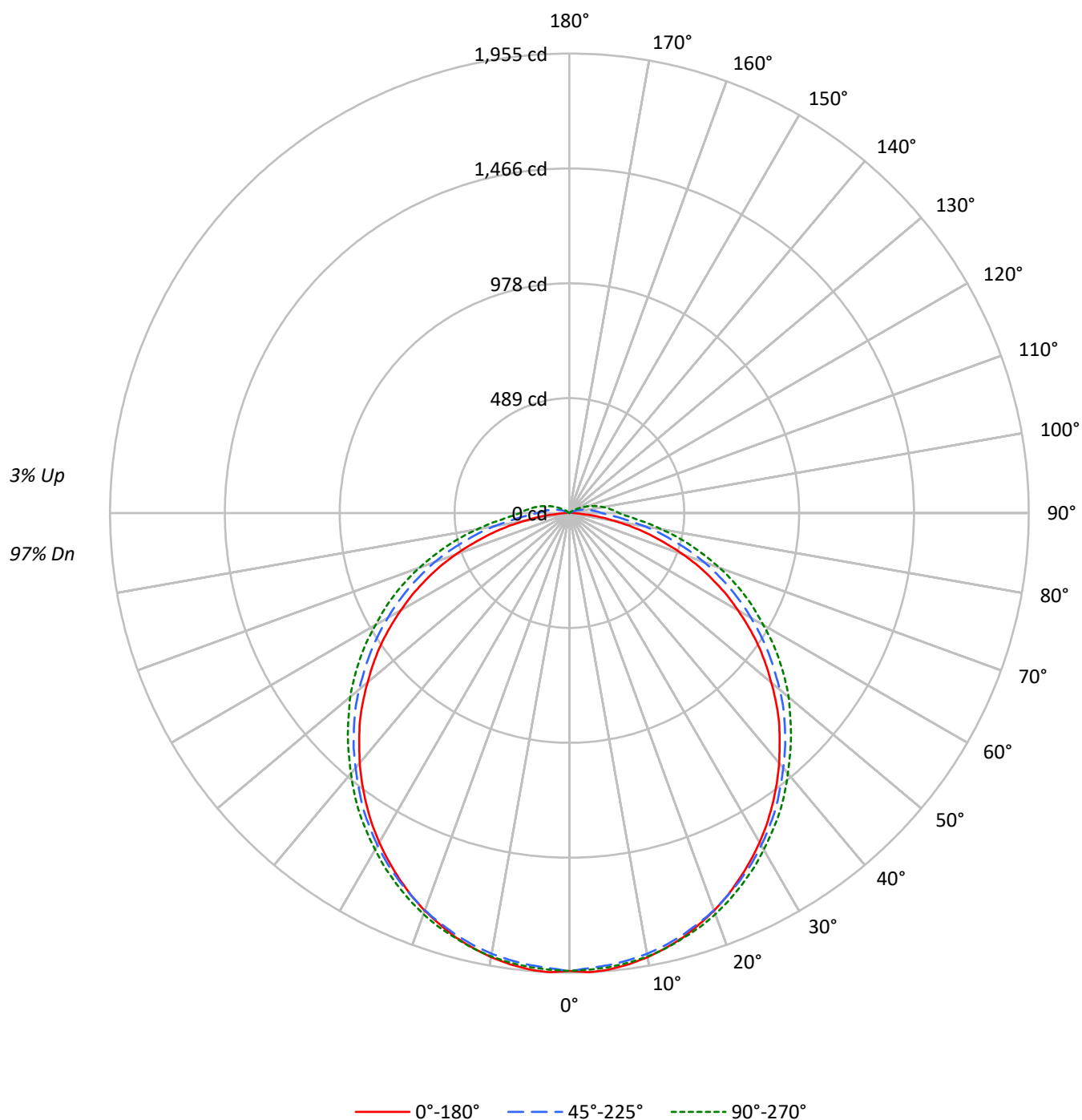
Input Watts (W): 51.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12581	12581	12581
5°	12357	10689	10316
10°	12030	9289	8720
15°	11681	8159	7495
20°	11300	7227	6535
25°	10898	6425	5729
30°	10490	5725	5046
35°	10058	5102	4466
40°	9604	4525	3937
45°	9145	4014	3481
50°	8598	3529	3076
55°	8048	3072	2687
60°	7372	2632	2309
65°	6626	2216	1972
70°	5663	1810	1629
75°	4452	1386	1299
80°	2972	998	973
85°	1338	657	702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.1
10°-20°	526.9	8.7
20°-30°	796.0	13.2
30°-40°	958.9	15.9
40°-50°	1001.8	16.6
50°-60°	925.5	15.3
60°-70°	742.0	12.3
70°-80°	480.7	8.0
80°-90°	222.1	3.7
90°-100°	109.5	1.8
100°-110°	58.4	1.0
110°-120°	22.7	0.4
120°-130°	4.2	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1507.1	25.0
0°-40°	2466.1	40.9
0°-60°	4393.3	72.8
0°-90°	5838.1	96.8
90°-120°	190.7	3.2
90°-150°	194.9	3.2
90°-180°	195.0	3.2
0°-180°	6033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1950	1944	1930	1942	1939	185
15°	1869	1867	1859	1873	1872	527
25°	1715	1719	1722	1738	1741	790
35°	1508	1518	1532	1549	1558	944
45°	1262	1277	1297	1322	1334	972
55°	981	1003	1033	1072	1090	875
65°	676	696	752	800	821	668
75°	352	396	460	516	538	373
85°	72	132	207	261	280	87
90°	16	66	138	192	211	11
95°	10	41	106	158	177	8
105°	4	9	53	97	114	5
115°	2	2	15	42	56	2
125°	2	0	0	7	13	1
135°	0	0	0	0	0	0
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°	1948.0	1948.0	1948.0	1948.0	1948.0
2.5°	1955.3	1949.5	1937.8	1948.0	1945.1
5°	1949.5	1943.6	1930.4	1942.2	1939.2
7.5°	1936.3	1930.4	1918.7	1931.9	1929.0
10°	1918.7	1914.3	1904.0	1915.8	1915.8
12.5°	1895.3	1893.8	1883.5	1896.7	1896.7
15°	1868.9	1867.4	1858.6	1873.3	1871.8
17.5°	1835.2	1836.6	1829.3	1843.9	1846.9
20°	1800.0	1800.0	1798.5	1813.2	1816.1
22.5°	1760.4	1761.9	1760.4	1778.0	1780.9
25°	1715.0	1719.4	1722.3	1738.4	1741.3
27.5°	1668.1	1673.9	1679.8	1695.9	1700.3
30°	1618.2	1622.6	1632.9	1650.5	1653.4
32.5°	1565.5	1574.2	1583.0	1600.6	1606.5
35°	1508.3	1518.5	1531.7	1549.3	1558.1
37.5°	1449.7	1461.4	1473.1	1496.6	1503.9
40°	1388.1	1401.3	1415.9	1437.9	1446.7
42.5°	1323.6	1341.2	1358.8	1382.2	1389.6
45°	1262.0	1276.7	1297.2	1322.1	1333.9
47.5°	1193.1	1212.2	1235.7	1262.0	1273.8
50°	1121.3	1141.8	1168.2	1199.0	1218.1
52.5°	1052.4	1072.9	1099.3	1137.4	1155.0
55°	980.6	1002.6	1033.4	1071.5	1090.5
57.5°	905.9	929.3	963.0	1005.5	1024.6
60°	828.2	853.1	892.7	939.6	952.8
62.5°	754.9	778.3	823.8	869.2	888.3
65°	675.7	696.2	751.9	800.3	820.8
67.5°	598.0	621.5	680.1	732.9	750.5
70°	514.5	543.8	609.8	658.1	678.7
72.5°	430.9	466.1	535.0	587.8	606.8
75°	351.8	395.8	460.3	516.0	537.9
77.5°	275.6	321.0	394.3	445.6	467.6
80°	197.9	252.1	323.9	376.7	397.2
82.5°	131.9	187.6	259.4	315.1	337.1
85°	71.8	131.9	206.7	260.9	280.0
87.5°	33.7	92.3	162.7	216.9	238.9
90°	16.1	66.0	137.8	192.0	211.1
92.5°	13.2	51.3	121.7	174.4	194.9
95°	10.3	41.0	105.5	158.3	177.4
97.5°	8.8	29.3	92.3	142.2	162.7
100°	7.3	20.5	77.7	127.5	145.1
102.5°	5.9	13.2	64.5	112.9	130.5
105°	4.4	8.8	52.8	96.7	114.3
107.5°	4.4	4.4	42.5	82.1	99.7
110°	2.9	2.9	30.8	68.9	83.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	2.9	22.0	55.7	68.9
115°	1.5	1.5	14.7	42.5	55.7
117.5°	1.5	1.5	8.8	32.2	42.5
120°	1.5	1.5	4.4	22.0	32.2
122.5°	1.5	1.5	1.5	14.7	22.0
125°	1.5	0.0	0.0	7.3	13.2
127.5°	0.0	0.0	0.0	2.9	7.3
130°	0.0	0.0	0.0	0.0	1.5
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)