

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: P237808

Luminaire Tested: **4VRVT2-LD5-6-FR50-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237808
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-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

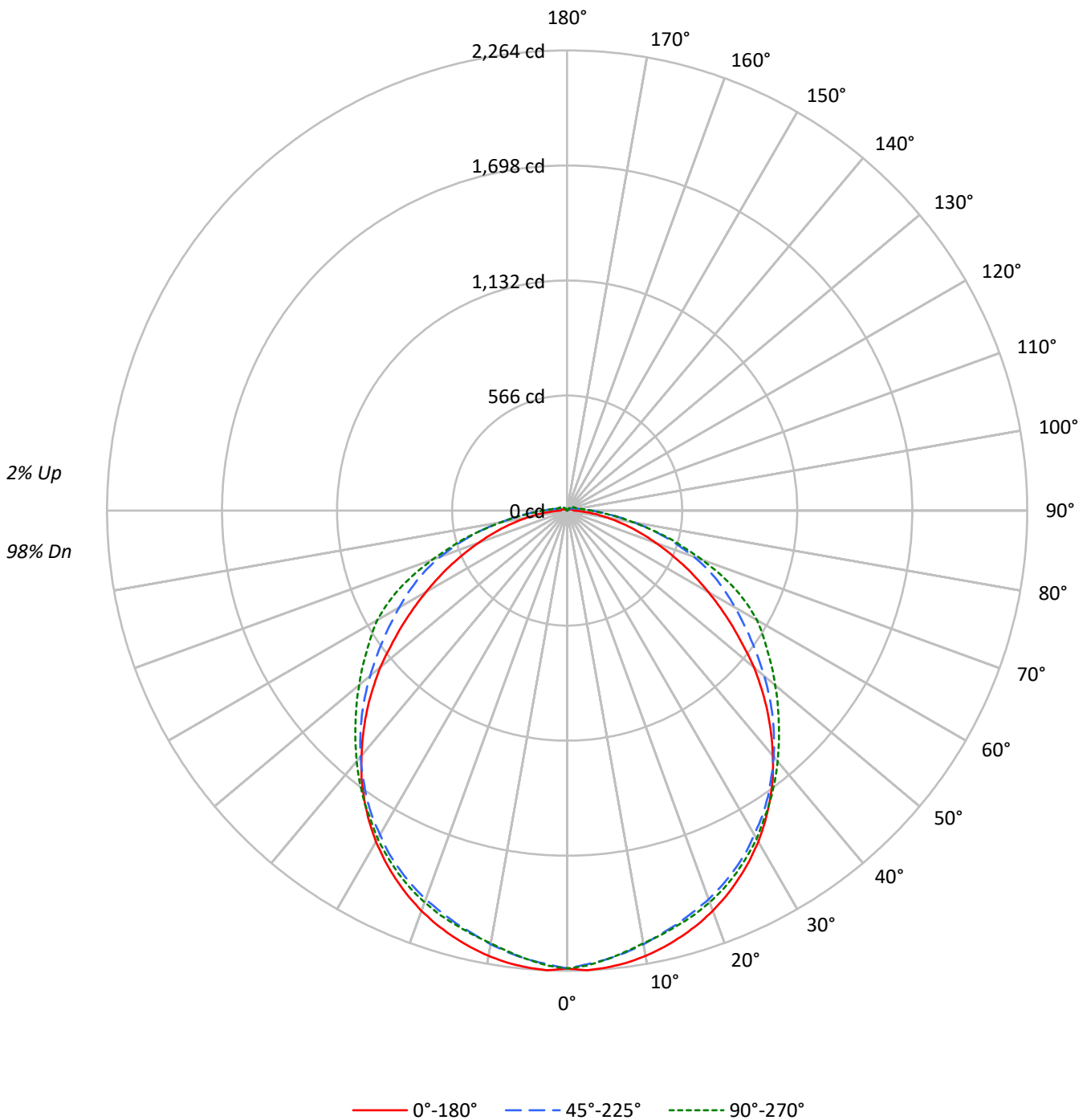
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					98			
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80					80			
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67					67			
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56					56			
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48					48			
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41					41			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28					28			
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11637	11637	11637
5°	11663	11241	11174
10°	11590	10861	10714
15°	11483	10510	10368
20°	11356	10208	10056
25°	11182	9894	9711
30°	10971	9531	9328
35°	10671	9163	8911
40°	10271	8732	8491
45°	9792	8260	8068
50°	9205	7738	7683
55°	8472	7218	7341
60°	7754	6764	7069
65°	7053	6371	6498
70°	6289	5801	5549
75°	5633	4978	4564
80°	4858	3965	3383
85°	4052	2987	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.2
10°-20°	599.7	9.2
20°-30°	904.8	13.9
30°-40°	1079.7	16.6
40°-50°	1101.0	16.9
50°-60°	985.6	15.2
60°-70°	779.1	12.0
70°-80°	482.1	7.4
80°-90°	202.8	3.1
90°-100°	72.3	1.1
100°-110°	38.4	0.6
110°-120°	25.2	0.4
120°-130°	14.6	0.2
130°-140°	6.5	0.1
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1715.8	26.4
0°-40°	2795.5	43.0
0°-60°	4882.1	75.1
0°-90°	6346.1	97.6
90°-120°	135.9	2.1
90°-150°	158.0	2.4
90°-180°	158.0	2.4
0°-180°	6504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2252	2252	2252	2252	2252	
5°	2257	2240	2217	2225	2217	214
15°	2170	2135	2104	2117	2111	612
25°	1998	1956	1949	1970	1968	920
35°	1739	1708	1721	1742	1742	1087
45°	1394	1383	1429	1465	1472	1073
55°	994	1016	1103	1182	1203	890
65°	626	670	816	900	912	622
75°	324	392	495	514	513	345
85°	100	156	202	204	195	103
90°	33	82	121	122	118	22
95°	30	46	75	77	75	24
105°	23	22	40	46	44	25
115°	13	12	28	37	37	13
125°	5	3	17	26	30	5
135°	2	2	6	15	18	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



TEST NUMBER: P237808

CATALOG NUMBER: 4VRVT2-LD5-6-FR50-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2252.3	2252.3	2252.3	2252.3	2252.3
2.5°	2264.0	2251.3	2234.3	2246.0	2240.7
5°	2256.6	2239.6	2217.4	2224.8	2217.4
7.5°	2243.9	2222.7	2194.0	2197.2	2189.8
10°	2224.8	2199.3	2166.5	2169.7	2162.2
12.5°	2200.4	2169.7	2133.6	2145.3	2137.9
15°	2169.7	2134.7	2103.9	2116.7	2111.4
17.5°	2135.7	2097.6	2069.0	2089.1	2084.9
20°	2095.5	2053.1	2035.0	2054.1	2050.9
22.5°	2049.9	2004.3	1994.8	2016.0	2012.8
25°	1998.0	1955.6	1949.2	1970.4	1968.3
27.5°	1941.8	1897.3	1900.4	1918.5	1917.4
30°	1881.4	1842.1	1841.1	1865.5	1864.4
32.5°	1813.5	1774.3	1784.9	1804.0	1800.8
35°	1739.3	1707.5	1721.3	1742.5	1742.5
37.5°	1662.0	1632.3	1650.3	1672.6	1677.9
40°	1574.0	1551.7	1581.4	1607.9	1611.1
42.5°	1484.9	1470.1	1506.1	1535.8	1542.2
45°	1393.8	1383.2	1428.8	1464.8	1472.2
47.5°	1296.3	1296.3	1348.2	1391.7	1405.5
50°	1199.8	1199.8	1265.5	1319.6	1335.5
52.5°	1092.8	1107.6	1182.9	1247.5	1270.8
55°	994.2	1016.5	1103.4	1181.8	1203.0
57.5°	896.7	924.3	1026.0	1117.2	1141.5
60°	802.4	839.5	953.9	1051.4	1079.0
62.5°	713.3	752.5	885.0	980.4	999.5
65°	626.4	669.9	816.1	899.9	911.5
67.5°	542.7	598.9	744.1	807.7	811.9
70°	462.1	527.8	662.5	710.1	703.8
72.5°	392.2	457.9	578.7	611.6	601.0
75°	324.3	392.2	495.0	514.1	513.0
77.5°	260.7	327.5	413.4	424.0	413.4
80°	200.3	267.1	332.8	338.1	328.6
82.5°	149.4	206.7	261.8	265.0	259.7
85°	99.6	155.8	202.4	203.5	195.0
87.5°	60.4	113.4	154.7	156.9	150.5
90°	32.9	81.6	120.8	121.9	117.7
92.5°	30.7	59.4	93.3	95.4	93.3
95°	29.7	45.6	75.3	77.4	75.3
97.5°	29.7	37.1	61.5	64.7	62.5
100°	27.6	30.7	51.9	55.1	54.1
102.5°	26.5	25.4	45.6	49.8	47.7
105°	23.3	22.3	40.3	45.6	44.5
107.5°	21.2	19.1	37.1	42.4	41.3
110°	18.0	17.0	33.9	40.3	40.3



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CATALOG NUMBER: 4VRVT2-LD5-6-FR50-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.8	13.8	30.7	38.2	38.2
115°	12.7	11.7	27.6	37.1	37.1
117.5°	10.6	9.5	25.4	35.0	36.0
120°	8.5	7.4	22.3	31.8	33.9
122.5°	7.4	5.3	19.1	29.7	31.8
125°	5.3	3.2	17.0	26.5	29.7
127.5°	4.2	3.2	13.8	23.3	26.5
130°	3.2	2.1	11.7	21.2	23.3
132.5°	3.2	2.1	8.5	18.0	20.1
135°	2.1	2.1	6.4	14.8	18.0
137.5°	2.1	1.1	4.2	11.7	14.8
140°	2.1	1.1	2.1	9.5	11.7
142.5°	1.1	1.1	1.1	6.4	8.5
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)