

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: P237841

Luminaire Tested: **4VT2-LD5-8-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT2-LD5-8-DR-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8724.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

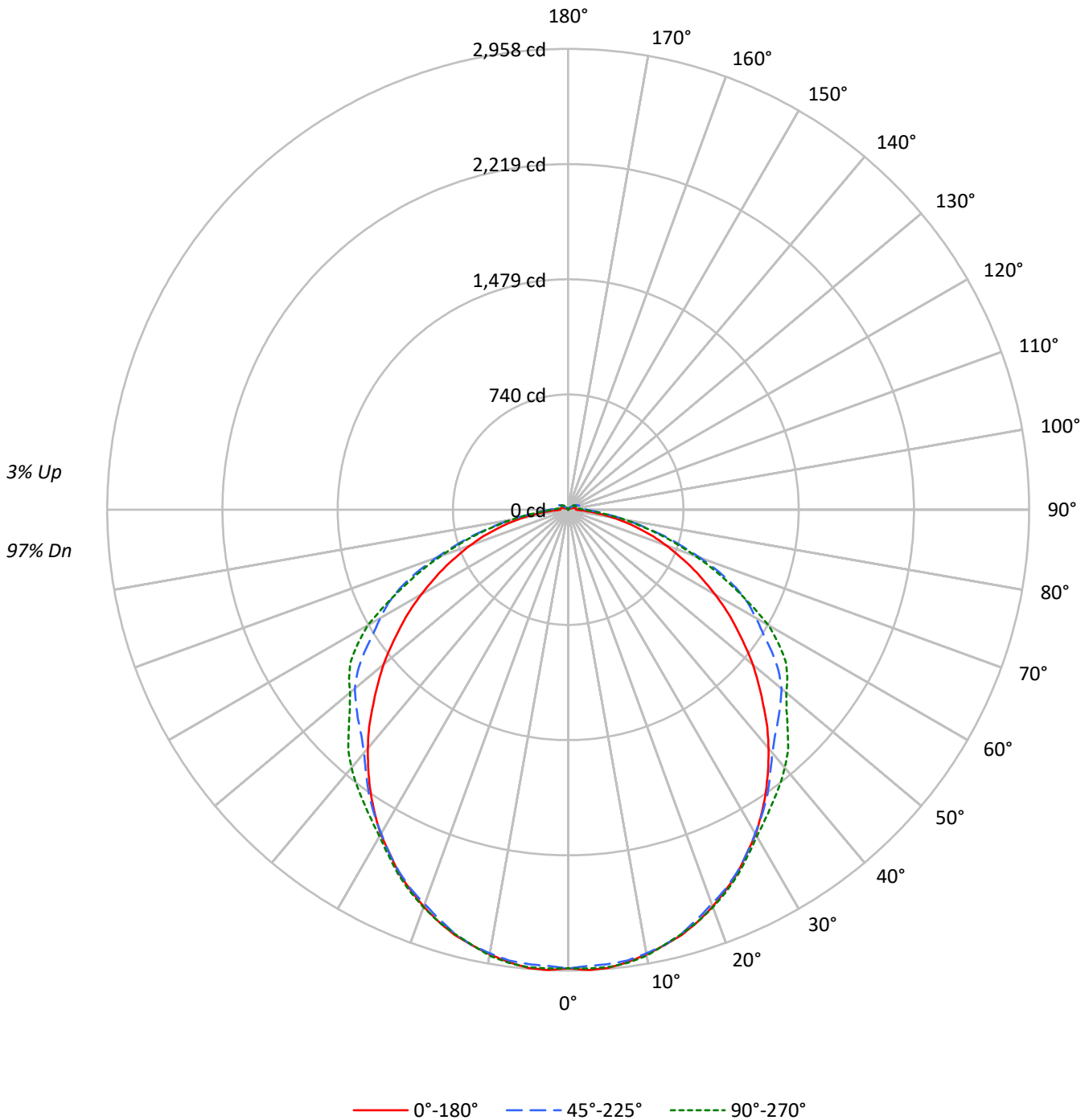
Input Watts (W): 58.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
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	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15209	15209	15209
5°	15258	14842	14851
10°	15098	14491	14403
15°	14945	14065	13835
20°	14689	13512	13317
25°	14392	13027	12741
30°	14025	12424	12113
35°	13567	11867	11709
40°	13053	11250	11397
45°	12438	11018	10910
50°	11866	10928	10507
55°	11192	10450	10409
60°	10510	9869	9722
65°	9812	9285	8291
70°	9076	7843	6854
75°	8212	6225	5309
80°	7069	4446	3786
85°	5346	3019	2286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	3.2
10°-20°	796.0	9.1
20°-30°	1186.4	13.6
30°-40°	1403.5	16.1
40°-50°	1461.2	16.7
50°-60°	1374.6	15.8
60°-70°	1101.5	12.6
70°-80°	639.9	7.3
80°-90°	225.7	2.6
90°-100°	87.2	1.0
100°-110°	66.3	0.8
110°-120°	50.4	0.6
120°-130°	30.7	0.4
130°-140°	15.0	0.2
140°-150°	4.9	0.1
150°-160°	0.8	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2261.9	25.9
0°-40°	3665.4	42.0
0°-60°	6501.3	74.5
0°-90°	8468.4	97.1
90°-120°	203.9	2.3
90°-150°	254.5	2.9
90°-180°	256.0	2.9
0°-180°	8724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2944	2944	2944	2944	2944	
5°	2952	2940	2928	2953	2947	280
15°	2824	2834	2816	2821	2818	795
25°	2572	2580	2566	2585	2582	1183
35°	2211	2216	2229	2267	2290	1382
45°	1770	1788	1906	1999	1991	1368
55°	1313	1391	1598	1666	1706	1176
65°	871	1090	1189	1179	1163	863
75°	473	655	619	605	597	503
85°	131	200	205	197	186	140
90°	50	108	118	111	104	30
95°	51	80	89	77	71	41
105°	41	59	78	65	55	43
115°	21	38	68	60	53	22
125°	8	14	44	50	48	8
135°	3	3	21	33	35	3
145°	2	1	4	14	17	1
155°	1	1	1	1	2	1
165°	1	1	1	1	0	0
175°	2	2	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P237841

CATALOG NUMBER: 4VT2-LD5-8-DR-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.7	2943.7	2943.7	2943.7	2943.7
2.5°	2957.5	2946.9	2931.0	2952.2	2946.9
5°	2952.2	2939.5	2927.8	2953.3	2946.9
7.5°	2928.9	2926.8	2918.3	2939.5	2934.2
10°	2898.1	2904.5	2890.7	2907.7	2906.6
12.5°	2862.1	2878.0	2862.1	2866.3	2860.0
15°	2823.9	2833.5	2815.5	2820.8	2817.6
17.5°	2770.9	2784.7	2755.0	2781.5	2770.9
20°	2710.5	2724.3	2693.6	2723.2	2715.8
22.5°	2642.7	2655.4	2636.3	2657.5	2652.2
25°	2571.7	2580.1	2566.4	2585.4	2582.3
27.5°	2483.7	2503.8	2485.8	2509.1	2499.6
30°	2405.2	2412.6	2399.9	2428.5	2421.1
32.5°	2310.9	2316.2	2316.2	2341.6	2354.3
35°	2211.2	2216.5	2229.3	2267.4	2289.7
37.5°	2106.3	2118.0	2129.6	2204.9	2229.3
40°	2000.3	2008.8	2037.4	2146.6	2162.5
42.5°	1890.0	1898.5	1964.3	2084.0	2089.3
45°	1770.3	1788.3	1905.9	1999.2	1990.8
47.5°	1656.8	1679.1	1846.6	1891.1	1899.6
50°	1546.6	1572.0	1787.2	1804.2	1826.4
52.5°	1427.9	1476.6	1702.4	1725.7	1772.4
55°	1313.4	1390.8	1597.5	1666.4	1705.6
57.5°	1204.2	1304.9	1483.0	1590.1	1600.7
60°	1087.6	1231.8	1391.8	1483.0	1484.1
62.5°	976.3	1161.8	1301.7	1336.7	1321.9
65°	871.4	1089.7	1189.4	1178.8	1162.9
67.5°	764.3	997.5	1050.5	1027.2	1016.6
70°	666.8	897.9	895.7	875.6	869.2
72.5°	573.5	773.8	752.6	734.6	729.3
75°	472.8	655.1	619.1	605.3	596.8
77.5°	381.6	532.1	483.4	478.1	471.7
80°	291.5	406.0	373.1	374.2	367.8
82.5°	201.4	291.5	273.5	271.4	263.9
85°	131.4	200.3	204.6	197.2	185.5
87.5°	71.0	139.9	149.5	144.2	135.7
90°	49.8	108.1	117.7	111.3	103.9
92.5°	49.8	91.2	99.6	90.1	83.7
95°	50.9	79.5	89.0	77.4	71.0
97.5°	50.9	72.1	82.7	70.0	62.5
100°	48.8	67.8	80.6	66.8	59.4
102.5°	45.6	63.6	79.5	64.7	57.2
105°	41.3	59.4	78.4	64.7	55.1
107.5°	36.0	55.1	77.4	63.6	55.1
110°	30.7	49.8	75.3	63.6	54.1



TEST NUMBER: P237841

CATALOG NUMBER: 4VT2-LD5-8-DR-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.5	44.5	72.1	62.5	54.1
115°	21.2	38.2	67.8	60.4	53.0
117.5°	17.0	31.8	62.5	58.3	51.9
120°	13.8	25.4	57.2	56.2	50.9
122.5°	10.6	19.1	50.9	53.0	48.8
125°	8.5	13.8	44.5	49.8	47.7
127.5°	6.4	9.5	38.2	46.6	44.5
130°	5.3	5.3	31.8	42.4	41.3
132.5°	4.2	4.2	26.5	38.2	39.2
135°	3.2	3.2	21.2	32.9	35.0
137.5°	3.2	2.1	15.9	28.6	30.7
140°	2.1	2.1	11.7	23.3	25.4
142.5°	2.1	2.1	7.4	19.1	21.2
145°	2.1	1.1	4.2	13.8	17.0
147.5°	2.1	1.1	2.1	9.5	12.7
150°	1.1	1.1	1.1	6.4	8.5
152.5°	1.1	1.1	1.1	3.2	4.2
155°	1.1	1.1	1.1	1.1	2.1
157.5°	1.1	1.1	1.1	1.1	0.0
160°	1.1	1.1	1.1	1.1	0.0
162.5°	1.1	1.1	1.1	1.1	0.0
165°	1.1	1.1	1.1	1.1	0.0
167.5°	2.1	1.1	1.1	1.1	0.0
170°	2.1	1.1	1.1	1.1	0.0
172.5°	2.1	2.1	1.1	1.1	0.0
175°	2.1	2.1	1.1	1.1	1.1
177.5°	2.1	2.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)