

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: P237795

Luminaire Tested: **4VT2-LD5-6-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VT2-LD5-6-DR100-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% 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: 6202.1 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

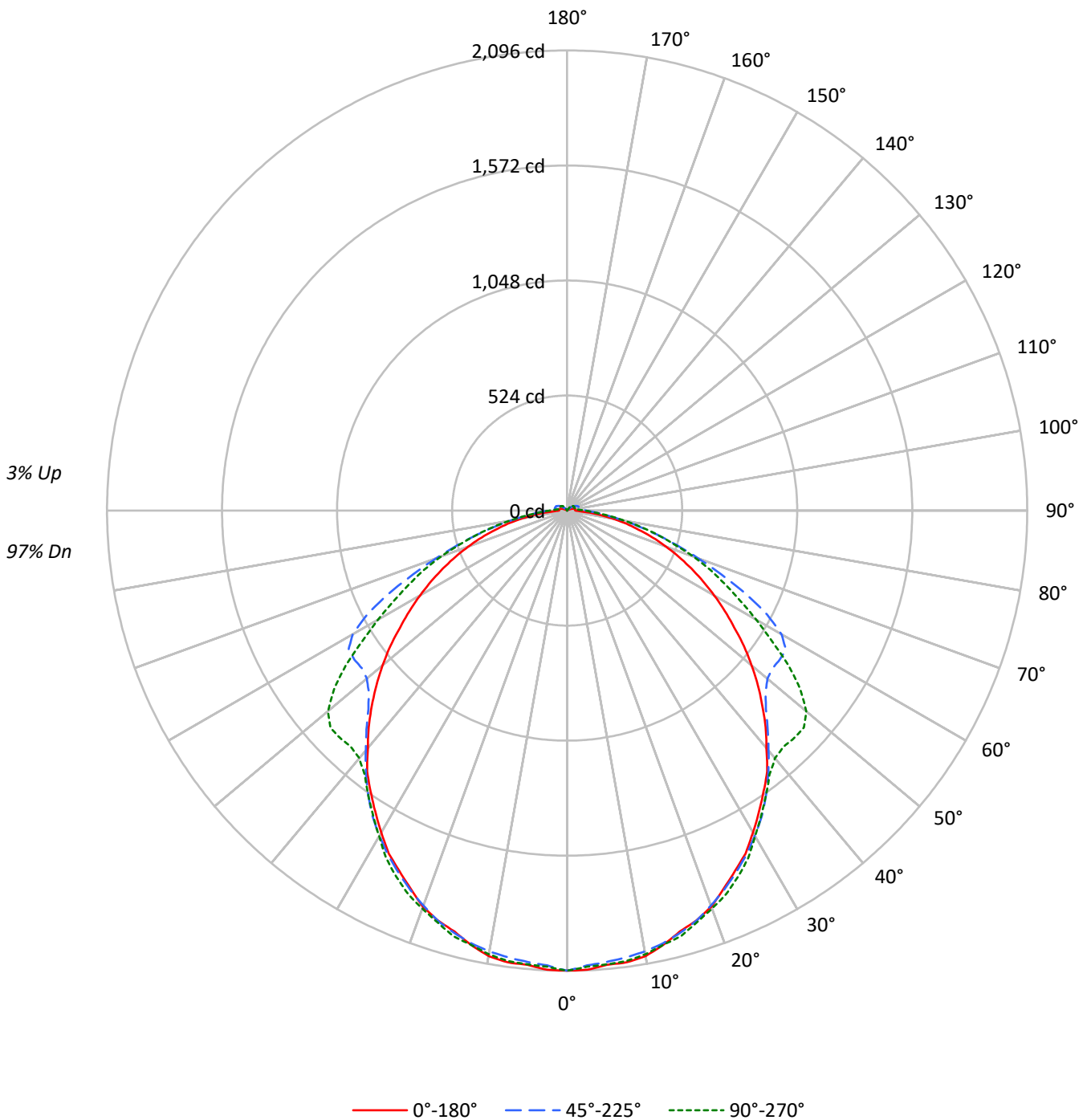
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
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	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	10828	10828	10828
5°	10733	10462	10455
10°	10736	10221	10167
15°	10504	9945	9849
20°	10404	9605	9458
25°	10128	9232	9082
30°	9871	8852	8569
35°	9576	8410	8079
40°	9213	7878	7762
45°	8837	7398	8022
50°	8416	7282	8179
55°	7924	7738	7518
60°	7479	7998	6518
65°	7025	7017	5653
70°	6518	5542	4809
75°	5871	4253	3780
80°	5117	3074	2707
85°	3783	2169	1775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	3.2
10°-20°	563.0	9.1
20°-30°	841.5	13.6
30°-40°	985.5	15.9
40°-50°	1029.6	16.6
50°-60°	1000.3	16.1
60°-70°	778.3	12.5
70°-80°	457.9	7.4
80°-90°	165.5	2.7
90°-100°	62.8	1.0
100°-110°	46.8	0.8
110°-120°	36.4	0.6
120°-130°	23.1	0.4
130°-140°	11.8	0.2
140°-150°	2.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1601.7	25.8
0°-40°	2587.3	41.7
0°-60°	4617.2	74.4
0°-90°	6018.9	97.0
90°-120°	145.9	2.4
90°-150°	183.2	3.0
90°-180°	183.0	3.0
0°-180°	6202.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2096	2096	2096	2096	2096	
5°	2077	2071	2064	2078	2075	198
15°	1985	1991	1991	2009	2006	562
25°	1810	1825	1819	1842	1841	835
35°	1561	1572	1580	1581	1580	976
45°	1258	1270	1280	1399	1464	970
55°	930	959	1183	1275	1232	834
65°	624	739	899	793	793	618
75°	338	502	423	420	425	361
85°	93	150	147	146	144	101
90°	37	78	87	82	80	22
95°	38	57	63	55	50	31
105°	31	44	55	43	37	33
115°	16	30	49	42	36	17
125°	7	12	34	37	34	6
135°	3	2	17	26	27	2
145°	0	0	0	0	0	1
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°	2095.7	2095.7	2095.7	2095.7	2095.7
2.5°	2093.7	2084.7	2073.7	2085.7	2079.7
5°	2076.7	2070.7	2063.7	2077.7	2074.7
7.5°	2075.7	2062.7	2052.8	2070.7	2069.7
10°	2060.7	2043.8	2038.8	2057.7	2051.8
12.5°	2025.8	2017.8	2018.8	2039.8	2025.8
15°	1984.8	1990.8	1990.8	2008.8	2005.8
17.5°	1957.8	1957.8	1958.8	1970.8	1965.8
20°	1919.8	1917.8	1914.8	1934.8	1928.8
22.5°	1863.8	1871.8	1868.8	1895.8	1891.8
25°	1809.8	1824.8	1818.8	1841.8	1840.8
27.5°	1760.8	1768.8	1767.8	1786.8	1784.8
30°	1692.8	1705.8	1709.8	1721.8	1712.8
32.5°	1626.8	1639.8	1650.8	1650.8	1645.8
35°	1560.8	1571.8	1579.8	1580.8	1579.8
37.5°	1496.8	1497.8	1505.8	1505.8	1514.8
40°	1411.8	1423.8	1426.8	1449.8	1472.8
42.5°	1338.8	1345.8	1352.8	1411.8	1458.8
45°	1257.8	1269.8	1279.8	1398.8	1463.8
47.5°	1178.9	1188.9	1224.9	1403.8	1462.8
50°	1096.9	1110.9	1190.9	1408.8	1421.8
52.5°	1015.9	1034.9	1178.9	1364.8	1338.8
55°	929.9	958.9	1182.9	1274.8	1231.9
57.5°	850.9	892.9	1180.9	1156.9	1104.9
60°	773.9	833.9	1127.9	1022.9	994.9
62.5°	697.9	783.9	1026.9	902.9	887.9
65°	623.9	738.9	898.9	792.9	792.9
67.5°	549.9	702.9	758.9	694.9	704.9
70°	478.9	659.9	632.9	596.9	609.9
72.5°	408.0	593.9	522.9	509.9	512.9
75°	338.0	501.9	422.9	419.9	424.9
77.5°	277.0	400.0	332.0	342.0	344.0
80°	211.0	301.0	258.0	267.0	263.0
82.5°	148.0	216.0	195.0	201.0	199.0
85°	93.0	150.0	147.0	146.0	144.0
87.5°	53.0	102.0	109.0	109.0	105.0
90°	37.0	78.0	87.0	82.0	80.0
92.5°	37.0	66.0	72.0	65.0	61.0
95°	38.0	57.0	63.0	55.0	50.0
97.5°	38.0	53.0	59.0	49.0	44.0
100°	37.0	49.0	57.0	45.0	40.0
102.5°	34.0	47.0	56.0	44.0	38.0
105°	31.0	44.0	55.0	43.0	37.0
107.5°	28.0	41.0	55.0	43.0	36.0
110°	24.0	38.0	54.0	43.0	36.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	20.0	34.0	52.0	42.0	36.0
115°	16.0	30.0	49.0	42.0	36.0
117.5°	13.0	25.0	46.0	41.0	36.0
120°	11.0	20.0	43.0	40.0	35.0
122.5°	8.0	16.0	38.0	38.0	35.0
125°	7.0	12.0	34.0	37.0	34.0
127.5°	5.0	8.0	30.0	34.0	33.0
130°	4.0	5.0	25.0	32.0	32.0
132.5°	3.0	3.0	21.0	29.0	30.0
135°	3.0	2.0	17.0	26.0	27.0
137.5°	2.0	2.0	13.0	22.0	25.0
140°	2.0	2.0	10.0	19.0	21.0
142.5°	2.0	2.0	7.0	15.0	18.0
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)