

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: P237750

Luminaire Tested: **2VT2-LD5-5-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-5-DR100-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5148.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

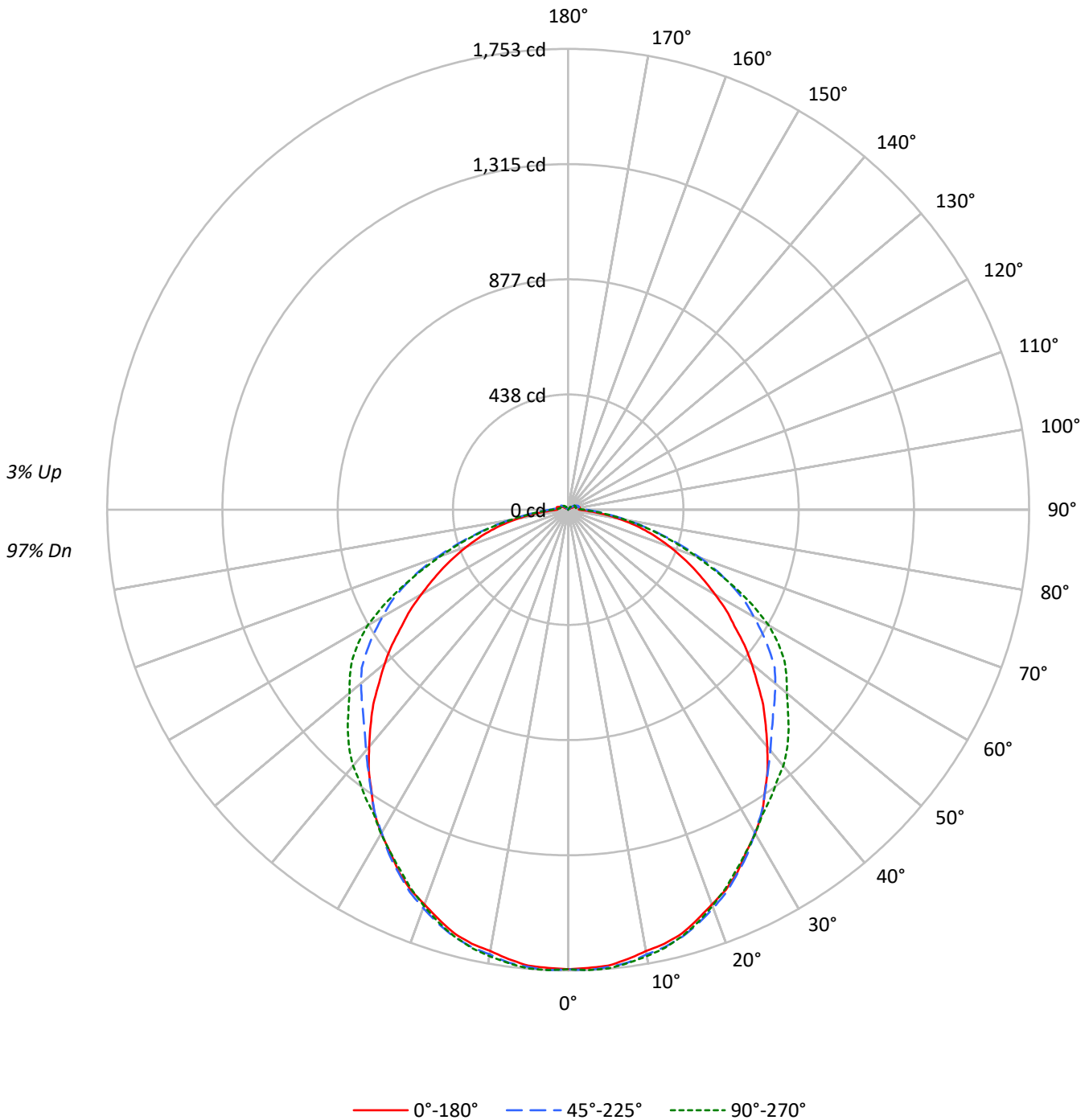
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	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	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	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°	18064	18064	18064
5°	17938	17663	17652
10°	17637	17142	17091
15°	17484	16678	16493
20°	17069	16027	15731
25°	16729	15306	14920
30°	16214	14479	14242
35°	15582	13676	13717
40°	14879	12950	13414
45°	14183	12460	12993
50°	13369	12258	12483
55°	12480	11875	12261
60°	11700	11188	11539
65°	10938	10369	9955
70°	10160	8923	8133
75°	9319	7002	6375
80°	7884	5025	4515
85°	5809	3384	2847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.2
10°-20°	472.1	9.2
20°-30°	700.8	13.6
30°-40°	825.4	16.0
40°-50°	856.8	16.6
50°-60°	804.1	15.6
60°-70°	646.5	12.6
70°-80°	383.6	7.5
80°-90°	140.6	2.7
90°-100°	52.7	1.0
100°-110°	40.1	0.8
110°-120°	30.7	0.6
120°-130°	18.5	0.4
130°-140°	8.7	0.2
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1338.6	26.0
0°-40°	2164.0	42.0
0°-60°	3824.9	74.3
0°-90°	4995.6	97.0
90°-120°	123.5	2.4
90°-150°	152.3	3.0
90°-180°	152.0	3.0
0°-180°	5148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1741	1741	1746	1751	1751	165
15°	1669	1671	1681	1681	1679	469
25°	1522	1522	1525	1520	1512	699
35°	1304	1314	1306	1324	1341	817
45°	1048	1046	1102	1175	1186	806
55°	772	799	934	978	1005	695
65°	524	616	690	710	698	520
75°	303	385	367	365	358	319
85°	94	129	124	121	116	97
90°	42	70	70	65	60	25
95°	44	50	49	44	38	36
105°	40	40	42	35	30	42
115°	23	27	37	34	30	24
125°	10	12	23	27	27	10
135°	5	3	12	17	18	4
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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CATALOG NUMBER: 2VT2-LD5-5-DR100-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1748.1	1748.1	1748.1	1748.1	1748.1
2.5°	1744.7	1748.1	1753.1	1753.1	1753.1
5°	1741.4	1741.4	1746.4	1751.4	1751.4
7.5°	1724.6	1728.0	1738.0	1738.0	1739.7
10°	1704.6	1714.6	1717.9	1724.6	1724.6
12.5°	1691.2	1694.5	1702.9	1706.2	1706.2
15°	1669.4	1671.1	1681.1	1681.1	1679.4
17.5°	1634.2	1639.3	1649.3	1649.3	1644.3
20°	1597.4	1609.1	1612.5	1607.4	1604.1
22.5°	1565.6	1568.9	1573.9	1565.6	1560.6
25°	1522.0	1522.0	1525.4	1520.4	1512.0
27.5°	1466.8	1478.5	1476.8	1473.5	1466.8
30°	1421.6	1428.3	1418.2	1419.9	1423.3
32.5°	1371.3	1374.7	1368.0	1371.3	1374.7
35°	1304.4	1314.4	1306.0	1324.5	1341.2
37.5°	1245.8	1252.5	1249.1	1285.9	1302.7
40°	1177.1	1183.8	1195.5	1249.1	1272.6
42.5°	1111.8	1113.5	1145.3	1213.9	1232.4
45°	1048.2	1046.5	1101.8	1175.4	1185.5
47.5°	974.5	979.5	1064.9	1128.6	1133.6
50°	910.9	919.3	1028.1	1069.9	1085.0
52.5°	843.9	857.3	989.6	1021.4	1046.5
55°	771.9	798.7	934.3	977.9	1004.6
57.5°	713.3	746.8	875.7	927.6	947.7
60°	644.6	701.6	815.4	865.7	880.7
62.5°	582.7	658.0	758.5	792.0	793.7
65°	524.1	616.2	689.9	710.0	698.2
67.5°	465.5	569.3	614.5	616.2	604.5
70°	410.2	514.0	532.5	525.8	515.7
72.5°	356.6	450.4	448.7	440.4	437.0
75°	303.1	385.1	366.7	365.0	358.3
77.5°	247.8	316.5	293.0	291.3	286.3
80°	192.6	242.8	224.4	226.0	219.3
82.5°	139.0	184.2	167.4	169.1	162.4
85°	93.8	128.9	123.9	120.6	115.5
87.5°	55.3	90.4	90.4	88.7	82.0
90°	41.9	70.3	70.3	65.3	60.3
92.5°	40.2	56.9	56.9	51.9	46.9
95°	43.5	50.2	48.6	43.5	38.5
97.5°	45.2	46.9	45.2	38.5	35.2
100°	45.2	43.5	43.5	35.2	31.8
102.5°	43.5	41.9	41.9	35.2	30.1
105°	40.2	40.2	41.9	35.2	30.1
107.5°	36.8	38.5	40.2	35.2	30.1
110°	31.8	35.2	40.2	35.2	30.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.5	31.8	38.5	33.5	30.1
115°	23.4	26.8	36.8	33.5	30.1
117.5°	20.1	23.4	33.5	31.8	30.1
120°	16.7	18.4	31.8	31.8	28.5
122.5°	13.4	15.1	28.5	30.1	28.5
125°	10.0	11.7	23.4	26.8	26.8
127.5°	8.4	8.4	20.1	25.1	25.1
130°	6.7	6.7	16.7	23.4	23.4
132.5°	5.0	5.0	13.4	20.1	21.8
135°	5.0	3.3	11.7	16.7	18.4
137.5°	3.3	3.3	8.4	15.1	16.7
140°	3.3	3.3	6.7	11.7	13.4
142.5°	3.3	1.7	3.3	10.0	11.7
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)