

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: P237847

Luminaire Tested: **8VT2-LD5-16-DR-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237847
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: 8VT2-LD5-16-DR-UNV-L850-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17448.0 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: 8.33' x H: 0.17')
CIE Type: Direct

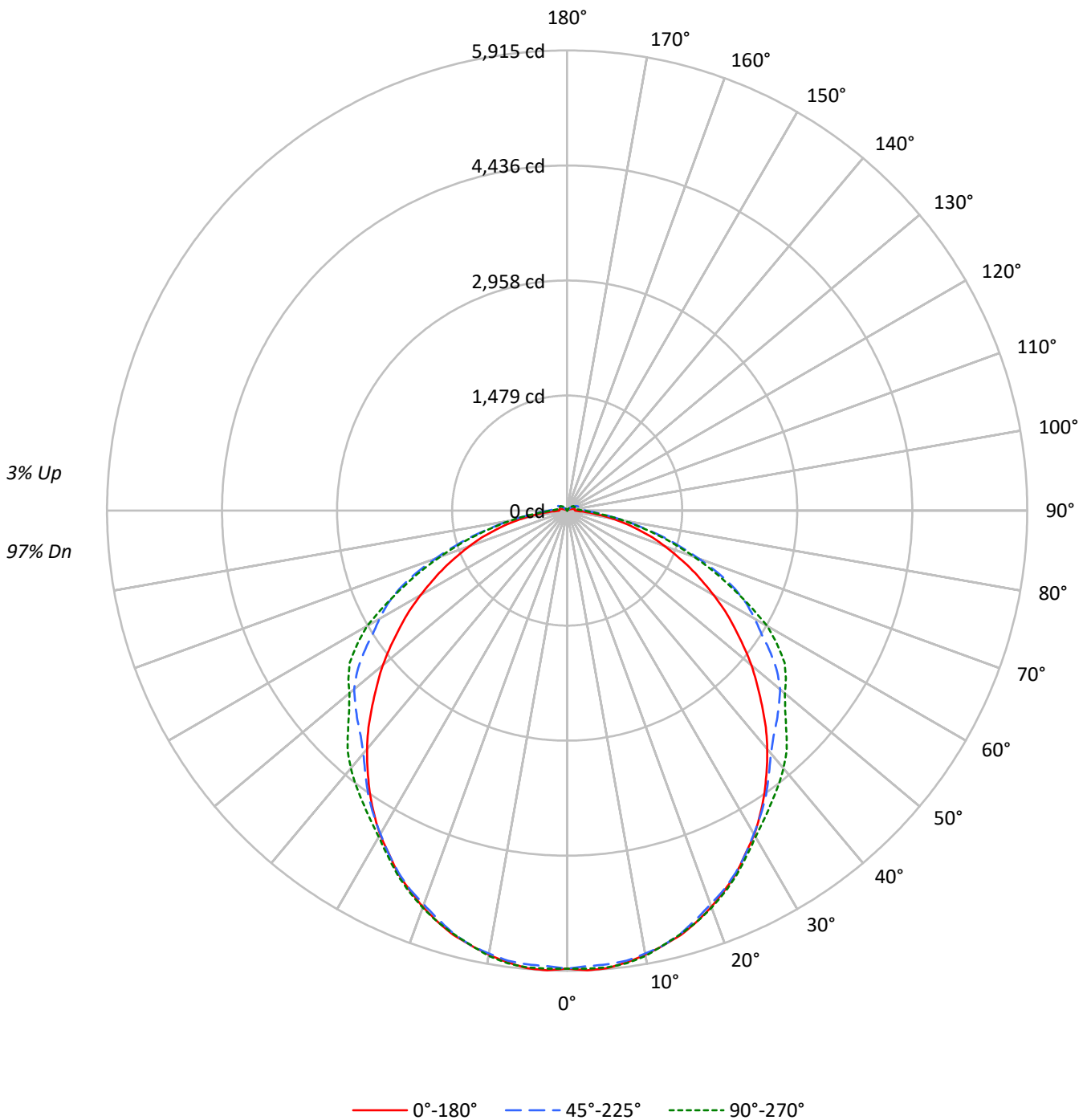
Input Watts (W): 117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15285	14860	14851
10°	15151	14526	14403
15°	15025	14115	13835
20°	14795	13575	13317
25°	14525	13104	12741
30°	14186	12513	12113
35°	13755	11967	11709
40°	13269	11360	11397
45°	12681	11142	10909
50°	12142	11069	10507
55°	11502	10606	10409
60°	10862	10038	9722
65°	10215	9468	8290
70°	9548	8024	6854
75°	8783	6395	5309
80°	7790	4594	3787
85°	6343	3146	2286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	3.2
10°-20°	1591.9	9.1
20°-30°	2372.7	13.6
30°-40°	2807.1	16.1
40°-50°	2922.4	16.7
50°-60°	2749.3	15.8
60°-70°	2203.0	12.6
70°-80°	1279.9	7.3
80°-90°	451.4	2.6
90°-100°	174.3	1.0
100°-110°	132.5	0.8
110°-120°	100.8	0.6
120°-130°	61.5	0.4
130°-140°	30.0	0.2
140°-150°	9.7	0.1
150°-160°	1.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	4523.8	25.9
0°-40°	7330.9	42.0
0°-60°	13002.5	74.5
0°-90°	16936.7	97.1
90°-120°	407.7	2.3
90°-150°	509.0	2.9
90°-180°	511.0	2.9
0°-180°	17448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5904	5879	5856	5906	5894	560
15°	5648	5667	5631	5642	5635	1591
25°	5143	5160	5133	5171	5164	2365
35°	4422	4433	4458	4535	4579	2764
45°	3540	3577	3812	3998	3982	2736
55°	2627	2782	3195	3333	3411	2353
65°	1743	2179	2379	2358	2326	1726
75°	946	1310	1238	1211	1194	1006
85°	263	401	409	394	371	280
90°	100	216	235	223	208	60
95°	102	159	178	155	142	82
105°	83	119	157	129	110	86
115°	42	76	136	121	106	43
125°	17	28	89	100	95	16
135°	6	6	42	66	70	6
145°	4	2	8	28	34	2
155°	2	2	2	2	4	1
165°	2	2	2	2	0	1
175°	4	4	2	2	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 8VT2-LD5-16-DR-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5887.5	5887.5	5887.5	5887.5	5887.5
2.5°	5915.0	5893.8	5862.0	5904.4	5893.8
5°	5904.4	5879.0	5855.6	5906.5	5893.8
7.5°	5857.8	5853.5	5836.6	5879.0	5868.4
10°	5796.3	5809.0	5781.4	5815.4	5813.2
12.5°	5724.2	5756.0	5724.2	5732.7	5720.0
15°	5647.9	5667.0	5630.9	5641.5	5635.2
17.5°	5541.9	5569.4	5510.1	5563.1	5541.9
20°	5421.0	5448.6	5387.1	5446.5	5431.6
22.5°	5285.3	5310.8	5272.6	5315.0	5304.4
25°	5143.3	5160.3	5132.7	5170.9	5164.5
27.5°	4967.3	5007.6	4971.6	5018.2	4999.1
30°	4810.5	4825.3	4799.9	4857.1	4842.3
32.5°	4621.8	4632.4	4632.4	4683.2	4708.7
35°	4422.5	4433.1	4458.5	4534.8	4579.4
37.5°	4212.6	4235.9	4259.2	4409.8	4458.5
40°	4000.6	4017.5	4074.8	4293.2	4325.0
42.5°	3780.1	3797.1	3928.5	4168.1	4178.7
45°	3540.5	3576.6	3811.9	3998.5	3981.5
47.5°	3313.7	3358.2	3693.2	3782.2	3799.2
50°	3093.2	3144.1	3574.4	3608.4	3652.9
52.5°	2855.7	2953.3	3404.8	3451.5	3544.8
55°	2626.8	2781.5	3195.0	3332.8	3411.2
57.5°	2408.4	2609.8	2966.0	3180.1	3201.3
60°	2175.2	2463.5	2783.7	2966.0	2968.1
62.5°	1952.6	2323.6	2603.5	2673.4	2643.7
65°	1742.7	2179.4	2378.7	2357.5	2325.7
67.5°	1528.6	1995.0	2101.0	2054.4	2033.2
70°	1333.5	1795.7	1791.5	1751.2	1738.5
72.5°	1147.0	1547.7	1505.3	1469.2	1458.6
75°	945.6	1310.2	1238.1	1210.6	1193.6
77.5°	763.2	1064.3	966.8	956.2	943.4
80°	583.0	812.0	746.3	748.4	735.7
82.5°	402.8	583.0	547.0	542.7	527.9
85°	262.9	400.7	409.2	394.3	371.0
87.5°	142.0	279.8	298.9	288.3	271.4
90°	99.6	216.2	235.3	222.6	207.8
92.5°	99.6	182.3	199.3	180.2	167.5
95°	101.8	159.0	178.1	154.8	142.0
97.5°	101.8	144.2	165.4	139.9	125.1
100°	97.5	135.7	161.1	133.6	118.7
102.5°	91.2	127.2	159.0	129.3	114.5
105°	82.7	118.7	156.9	129.3	110.2
107.5°	72.1	110.2	154.8	127.2	110.2
110°	61.5	99.6	150.5	127.2	108.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.0	89.0	144.2	125.1	108.1
115°	42.4	76.3	135.7	120.8	106.0
117.5°	33.9	63.6	125.1	116.6	103.9
120°	27.6	50.9	114.5	112.4	101.8
122.5°	21.2	38.2	101.8	106.0	97.5
125°	17.0	27.6	89.0	99.6	95.4
127.5°	12.7	19.1	76.3	93.3	89.0
130°	10.6	10.6	63.6	84.8	82.7
132.5°	8.5	8.5	53.0	76.3	78.4
135°	6.4	6.4	42.4	65.7	70.0
137.5°	6.4	4.2	31.8	57.2	61.5
140°	4.2	4.2	23.3	46.6	50.9
142.5°	4.2	4.2	14.8	38.2	42.4
145°	4.2	2.1	8.5	27.6	33.9
147.5°	4.2	2.1	4.2	19.1	25.4
150°	2.1	2.1	2.1	12.7	17.0
152.5°	2.1	2.1	2.1	6.4	8.5
155°	2.1	2.1	2.1	2.1	4.2
157.5°	2.1	2.1	2.1	2.1	0.0
160°	2.1	2.1	2.1	2.1	0.0
162.5°	2.1	2.1	2.1	2.1	0.0
165°	2.1	2.1	2.1	2.1	0.0
167.5°	4.2	2.1	2.1	2.1	0.0
170°	4.2	2.1	2.1	2.1	0.0
172.5°	4.2	4.2	2.1	2.1	0.0
175°	4.2	4.2	2.1	2.1	2.1
177.5°	4.2	4.2	2.1	2.1	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)