

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: P237857

Luminaire Tested: **8VT2-LD5-16-DR100-UNV-L835-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-16-DR100-UNV-L835-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16482.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

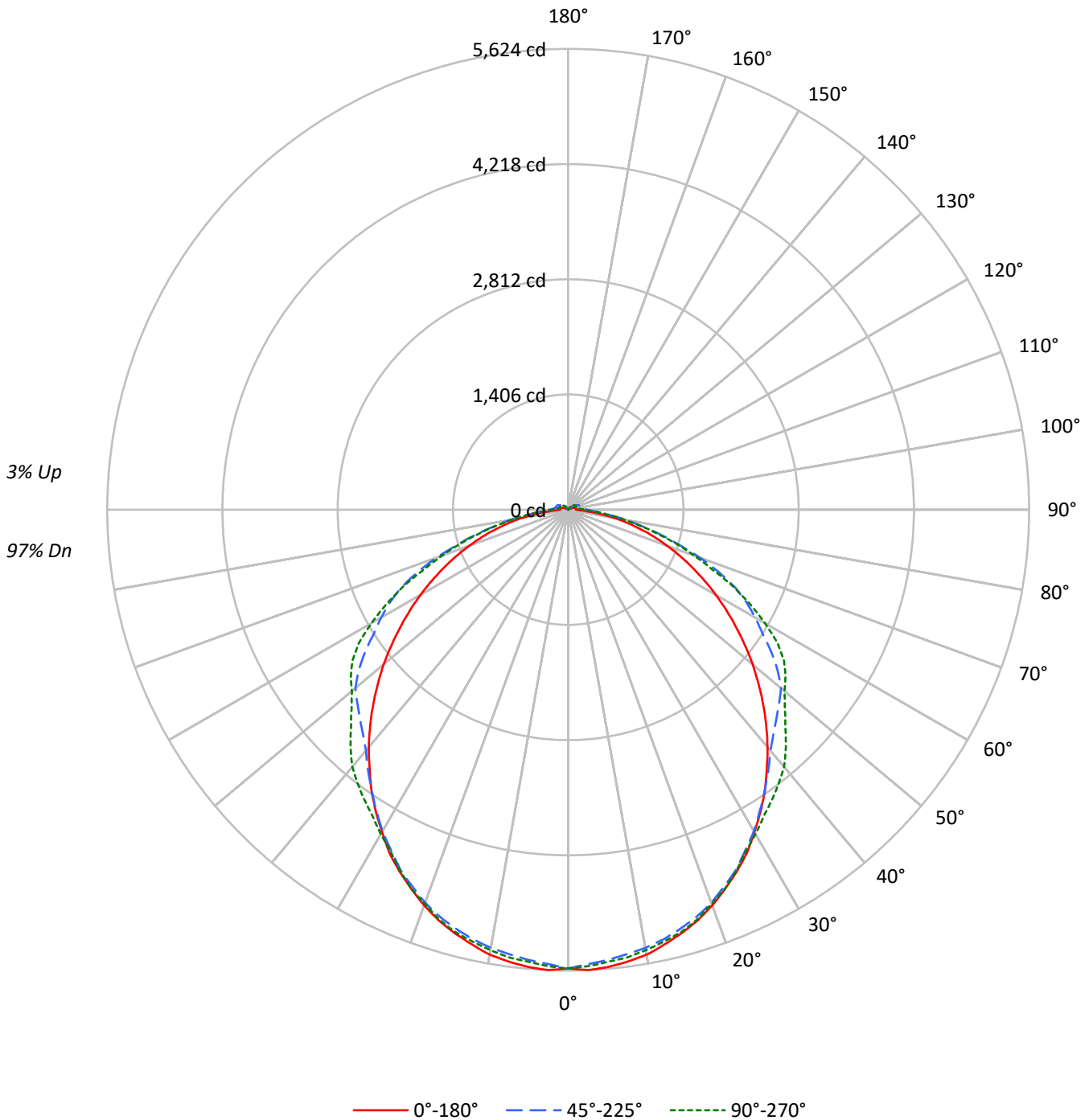
Input Watts (W): 117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	56
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°	14461	14461	14461
5°	14502	13998	13954
10°	14413	13643	13522
15°	14232	13270	13096
20°	14023	12862	12552
25°	13753	12371	11984
30°	13394	11809	11437
35°	13012	11219	11071
40°	12550	10699	10799
45°	12056	10505	10264
50°	11541	10498	9906
55°	10956	10038	9807
60°	10387	9499	9080
65°	9777	8939	7906
70°	9150	7641	6450
75°	8452	5971	4982
80°	7482	4395	3521
85°	5694	2937	2268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	3.2
10°-20°	1500.8	9.1
20°-30°	2235.1	13.6
30°-40°	2644.8	16.0
40°-50°	2762.0	16.8
50°-60°	2598.5	15.8
60°-70°	2084.0	12.6
70°-80°	1209.5	7.3
80°-90°	430.8	2.6
90°-100°	168.1	1.0
100°-110°	126.5	0.8
110°-120°	96.2	0.6
120°-130°	58.9	0.4
130°-140°	28.8	0.2
140°-150°	9.5	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4263.1	25.9
0°-40°	6907.9	41.9
0°-60°	12268.4	74.4
0°-90°	15992.8	97.0
90°-120°	390.8	2.4
90°-150°	488.0	3.0
90°-180°	489.0	3.0
0°-180°	16482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5598	5598	5598	5598	5598	
5°	5602	5572	5516	5544	5538	532
15°	5350	5310	5294	5348	5334	1509
25°	4870	4842	4846	4880	4858	2241
35°	4184	4178	4180	4272	4330	2613
45°	3366	3384	3594	3772	3746	2595
55°	2502	2626	3024	3134	3214	2240
65°	1668	2076	2246	2230	2218	1657
75°	910	1248	1156	1134	1120	965
85°	236	386	382	374	368	264
90°	96	206	230	216	204	58
95°	98	152	170	150	136	79
105°	80	114	150	122	106	83
115°	42	72	130	116	100	43
125°	16	28	86	94	90	16
135°	8	6	40	64	66	6
145°	4	4	8	28	32	3
155°	2	2	2	2	4	1
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°	5597.9	5597.9	5597.9	5597.9	5597.9
2.5°	5623.9	5593.9	5549.9	5589.9	5575.9
5°	5601.9	5571.9	5515.9	5543.9	5537.9
7.5°	5561.9	5521.9	5471.9	5515.9	5511.9
10°	5513.9	5467.9	5429.9	5471.9	5457.9
12.5°	5433.9	5397.9	5369.9	5419.9	5397.9
15°	5349.9	5309.9	5293.9	5347.9	5333.9
17.5°	5253.9	5221.9	5209.9	5239.9	5241.9
20°	5137.9	5113.9	5103.9	5143.9	5119.9
22.5°	5005.9	4971.9	4973.9	5015.9	5003.9
25°	4869.9	4841.9	4845.9	4879.9	4857.9
27.5°	4721.9	4689.9	4681.9	4717.9	4695.9
30°	4541.9	4535.9	4529.9	4559.9	4571.9
32.5°	4367.9	4365.9	4353.9	4395.9	4437.9
35°	4183.9	4177.9	4179.9	4271.9	4329.9
37.5°	3979.9	3985.9	4009.9	4157.9	4215.9
40°	3783.9	3785.9	3837.9	4059.9	4097.9
42.5°	3575.9	3579.9	3705.9	3939.9	3931.9
45°	3365.9	3383.9	3593.9	3771.9	3745.9
47.5°	3147.9	3181.9	3489.9	3583.9	3585.9
50°	2940.0	2984.0	3389.9	3411.9	3443.9
52.5°	2718.0	2804.0	3221.9	3251.9	3341.9
55°	2502.0	2626.0	3024.0	3133.9	3213.9
57.5°	2290.0	2472.0	2810.0	2984.0	3028.0
60°	2080.0	2334.0	2634.0	2776.0	2772.0
62.5°	1874.0	2202.0	2450.0	2516.0	2506.0
65°	1668.0	2076.0	2246.0	2230.0	2218.0
67.5°	1478.0	1904.0	1986.0	1920.0	1900.0
70°	1278.0	1696.0	1706.0	1640.0	1636.0
72.5°	1098.0	1472.0	1412.0	1380.0	1382.0
75°	910.0	1248.0	1156.0	1134.0	1120.0
77.5°	734.0	1002.0	912.0	908.0	900.0
80°	560.0	772.0	714.0	696.0	684.0
82.5°	390.0	558.0	522.0	522.0	514.0
85°	236.0	386.0	382.0	374.0	368.0
87.5°	132.0	266.0	286.0	278.0	262.0
90°	96.0	206.0	230.0	216.0	204.0
92.5°	96.0	174.0	192.0	176.0	162.0
95°	98.0	152.0	170.0	150.0	136.0
97.5°	98.0	140.0	160.0	136.0	122.0
100°	94.0	130.0	154.0	128.0	112.0
102.5°	88.0	122.0	150.0	124.0	108.0
105°	80.0	114.0	150.0	122.0	106.0
107.5°	70.0	106.0	146.0	122.0	104.0
110°	60.0	96.0	144.0	120.0	104.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.0	84.0	138.0	118.0	102.0
115°	42.0	72.0	130.0	116.0	100.0
117.5°	34.0	60.0	120.0	112.0	98.0
120°	28.0	48.0	108.0	106.0	96.0
122.5°	20.0	36.0	98.0	102.0	94.0
125°	16.0	28.0	86.0	94.0	90.0
127.5°	14.0	18.0	74.0	88.0	86.0
130°	10.0	12.0	62.0	80.0	80.0
132.5°	8.0	8.0	50.0	72.0	74.0
135°	8.0	6.0	40.0	64.0	66.0
137.5°	6.0	6.0	32.0	54.0	58.0
140°	4.0	4.0	22.0	44.0	50.0
142.5°	4.0	4.0	14.0	36.0	40.0
145°	4.0	4.0	8.0	28.0	32.0
147.5°	4.0	2.0	4.0	20.0	24.0
150°	4.0	2.0	2.0	12.0	16.0
152.5°	2.0	2.0	2.0	6.0	10.0
155°	2.0	2.0	2.0	2.0	4.0
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)