

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: P188885

Luminaire Tested: **VI-M-256-750-5W-VL-56-N06-N-G**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P188885  
Test Lab: Intertek  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VI-M-256-750-5W-VL-56-N06-N-G  
Description: LED AREA LIGHT

Light Source: -  
Ballast/Driver: -

**Summary**

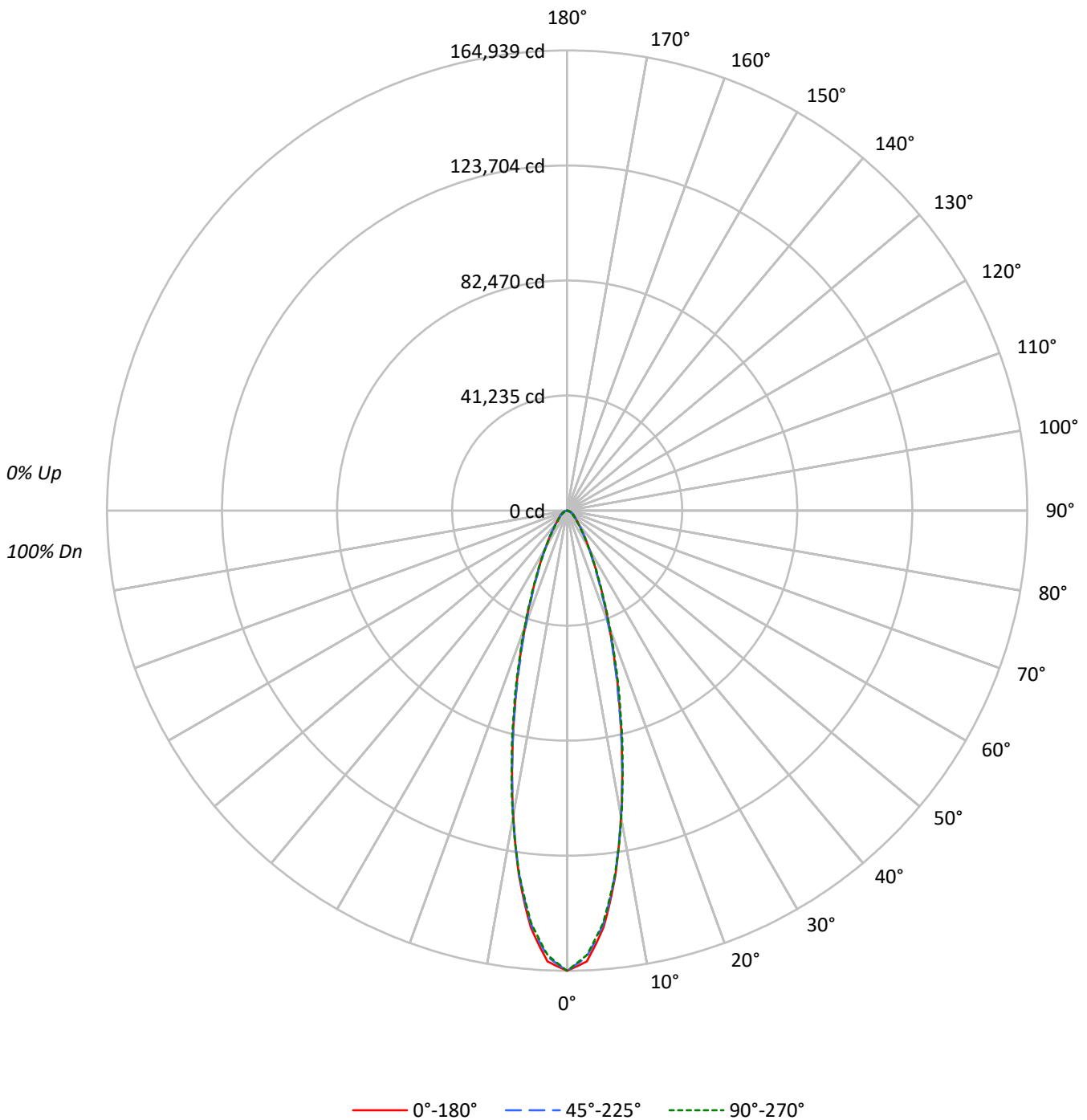
Lumens per Lamp: N/A  
Luminaire Lumens: 59573.2 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 639.5  
Input Voltage (V): NR  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	86	78	72	68	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58

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

	0°	45°	90°
0°	964517	964517	964517
5°	880233	873822	870333
10°	661031	661366	663533
15°	438327	434583	445204
20°	271784	266208	277796
25°	165554	162601	168740
30°	105903	104488	105469
35°	70219	71007	67919
40°	49339	50977	46337
45°	38287	38285	34913
50°	32387	30858	28295
55°	28569	26929	24035
60°	25358	24320	20983
65°	22723	21522	17202
70°	19849	15550	12262
75°	15963	8369	6521
80°	8604	1367	1414
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13000.6	21.8
10°-20°	20087.1	33.7
20°-30°	12159.9	20.4
30°-40°	6346.4	10.7
40°-50°	3595.4	6.0
50°-60°	2407.7	4.0
60°-70°	1473.0	2.5
70°-80°	484.5	0.8
80°-90°	18.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	45247.6	76.0
0°-40°	51594.0	86.6
0°-60°	57597.0	96.7
0°-90°	59573.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59573.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	164939	164939	164939	164939	164939	
5°	149953	149486	148861	148137	148266	###
15°	72403	72287	71784	72574	73539	20093
25°	25658	25436	25201	25803	26152	12205
35°	9836	9874	9947	9818	9514	6358
45°	4630	4692	4629	4401	4222	3666
55°	2802	2861	2641	2603	2358	2523
65°	1642	1560	1555	1413	1243	1628
75°	706	580	370	310	289	747
85°	0	0	0	0	0	53
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
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°	164938.8	164938.8	164938.8	164938.8	164938.8
2.5°	161760.7	160983.7	160150.0	159433.8	159577.1
5°	149952.8	149485.7	148860.7	148137.2	148266.3
7.5°	132056.4	131927.0	131691.0	131302.5	131453.8
10°	111323.3	111527.3	111379.7	111406.3	111744.7
12.5°	90816.5	90993.0	90683.1	91096.7	91809.0
15°	72402.7	72287.1	71784.2	72574.0	73538.7
17.5°	56648.3	56334.5	55716.4	56665.7	57740.2
20°	43673.9	43322.0	42778.0	43759.4	44640.1
22.5°	33412.7	33141.9	32730.6	33563.5	34158.6
25°	25658.3	25435.7	25200.6	25802.7	26152.1
27.5°	19950.4	19767.7	19622.5	20004.4	20139.9
30°	15683.8	15567.3	15474.2	15721.6	15619.5
32.5°	12412.3	12369.0	12355.6	12400.8	12147.6
35°	9836.3	9874.0	9946.7	9818.0	9514.1
37.5°	7876.1	7975.8	8100.6	7837.3	7530.9
40°	6463.4	6561.2	6677.9	6334.8	6070.1
42.5°	5397.7	5505.8	5533.6	5218.8	5017.4
45°	4629.6	4692.0	4629.4	4400.9	4221.7
47.5°	4049.2	4071.5	3926.5	3774.3	3605.1
50°	3560.0	3585.7	3391.9	3296.4	3110.2
52.5°	3155.1	3195.6	2982.1	2921.7	2699.2
55°	2802.2	2861.1	2641.3	2602.9	2357.5
57.5°	2480.4	2546.4	2350.8	2301.2	2064.5
60°	2168.2	2225.0	2079.4	2016.6	1794.1
62.5°	1888.9	1888.3	1829.0	1723.1	1518.3
65°	1642.2	1559.6	1555.4	1413.2	1243.2
67.5°	1391.0	1259.9	1248.2	1081.5	972.0
70°	1160.9	1004.7	909.5	798.8	717.2
72.5°	931.6	772.7	610.0	522.8	494.8
75°	706.5	579.9	370.4	309.9	288.6
77.5°	490.5	383.2	161.4	114.1	127.1
80°	255.5	189.4	40.6	32.2	42.0
82.5°	68.8	36.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)