

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: P188881

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P188881  
Test Lab: Intertek  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VI-M-256-750-5EL-VL-56-N06-N-G  
Description: LED AREA LIGHT  
  
Light Source: -  
Ballast/Driver: -

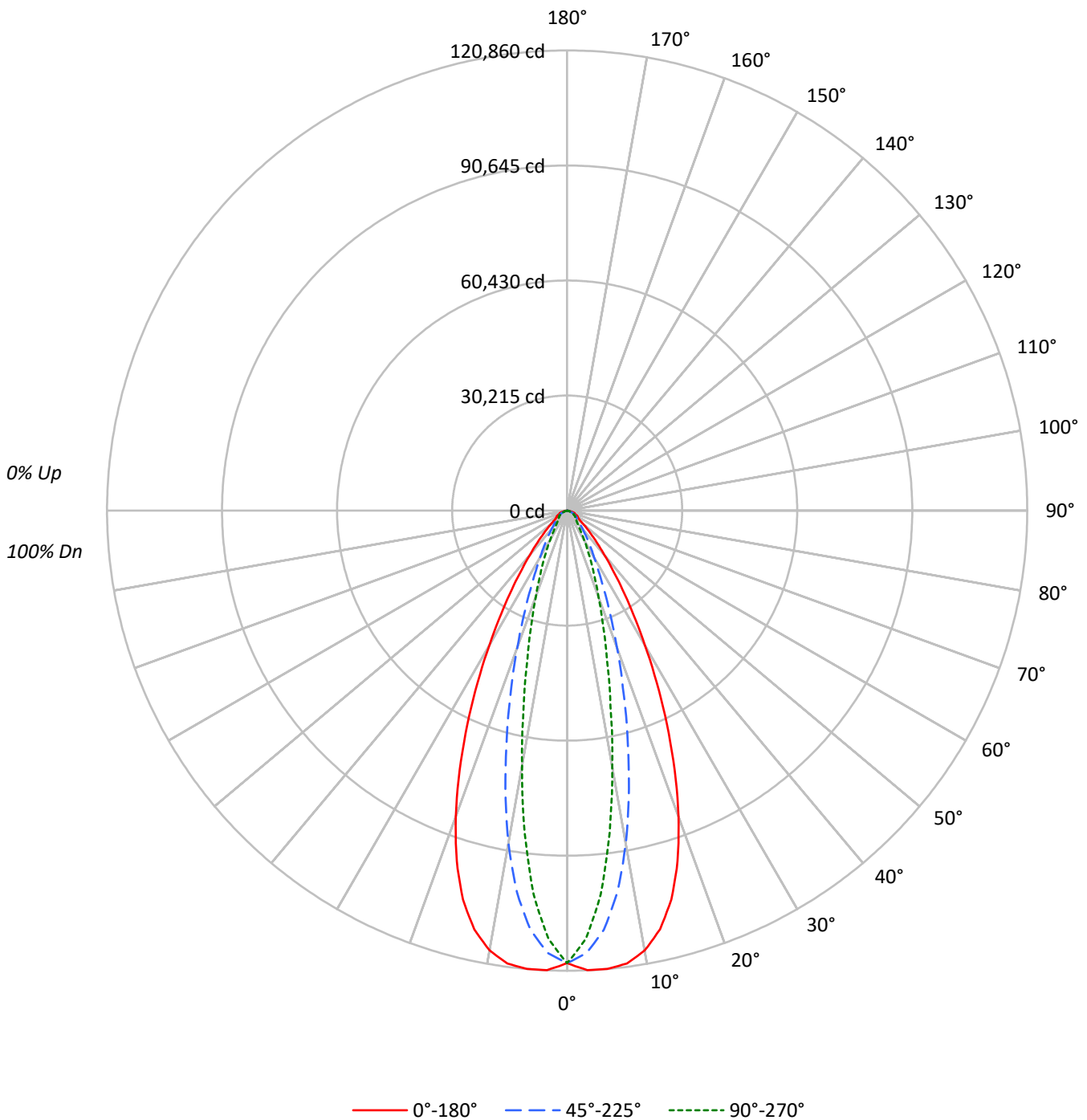
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59760.1 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.38 / 0.52  
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 639.2  
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	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					100			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95					93				
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	88					86				
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81					80				
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76					74				
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71					70				
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67					66				
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63					62				
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60					59				
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57					56				
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54					53				

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

	0°	45°	90°
0°	694974	694974	694974
5°	709454	648867	594169
10°	696630	526714	405542
15°	640254	369740	244110
20°	532362	237255	149409
25°	399834	146855	94823
30°	275747	95668	60896
35°	180994	66576	40071
40°	116862	48459	30935
45°	76217	37701	27568
50°	49915	31826	25955
55°	37495	28466	25258
60°	36813	25518	23684
65°	34560	22605	19712
70°	34941	17002	14174
75°	32842	10147	7978
80°	22886	3068	1862
85°	5421	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9934.4	16.6
10°-20°	18702.1	31.3
20°-30°	14195.8	23.8
30°-40°	7587.4	12.7
40°-50°	4099.7	6.9
50°-60°	2688.7	4.5
60°-70°	1776.1	3.0
70°-80°	715.5	1.2
80°-90°	60.4	0.1
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°	42832.3	71.7
0°-40°	50419.7	84.4
0°-60°	57208.1	95.7
0°-90°	59760.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59760.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	118845	118845	118845	118845	118845	
5°	120860	117627	110538	103672	101220	###
15°	105757	92036	61074	44759	40322	29042
25°	61968	45491	22760	15589	14696	28291
35°	25354	15643	9326	6427	5613	16254
45°	9216	6441	4559	3327	3334	7388
55°	3678	3344	2792	2612	2477	3489
65°	2498	2082	1634	1551	1425	2503
75°	1454	903	449	396	353	1492
85°	81	16	0	0	0	213
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°	118845.1	118845.1	118845.1	118845.1	118845.1
2.5°	120821.5	119109.8	116305.8	113306.6	112608.5
5°	120859.6	117626.6	110538.3	103671.8	101220.2
7.5°	119972.6	114326.0	101106.3	89602.3	85333.3
10°	117318.5	108822.3	88703.2	73617.9	68296.7
12.5°	112652.1	101271.1	74843.0	58055.3	52688.9
15°	105756.9	92036.2	61073.5	44758.9	40322.0
17.5°	96480.0	81206.0	48694.7	34165.0	30990.4
20°	85547.1	69191.9	38125.3	26079.7	24009.0
22.5°	73744.8	56917.2	29471.6	20024.3	18736.1
25°	61968.1	45491.1	22760.2	15588.6	14696.1
27.5°	50863.1	35479.8	17788.9	12377.3	11540.8
30°	40837.1	27060.7	14168.1	9951.0	9018.4
32.5°	32334.4	20496.1	11461.9	7997.9	7045.2
35°	25353.7	15642.6	9326.0	6427.1	5613.2
37.5°	19718.5	12174.9	7643.1	5205.9	4666.8
40°	15308.7	9673.4	6348.1	4322.5	4052.4
42.5°	11855.6	7815.2	5340.8	3722.5	3636.6
45°	9216.1	6441.2	4558.8	3327.1	3333.5
47.5°	7213.3	5444.9	3959.6	3073.6	3077.9
50°	5486.7	4673.4	3498.3	2913.7	2853.0
52.5°	4301.9	3960.3	3123.2	2782.5	2662.8
55°	3677.7	3343.6	2792.1	2612.0	2477.4
57.5°	3340.5	2919.4	2484.3	2397.3	2271.8
60°	3147.6	2612.5	2181.9	2135.8	2025.1
62.5°	2893.1	2353.7	1907.5	1855.6	1745.7
65°	2497.7	2082.5	1633.7	1551.2	1424.6
67.5°	2132.0	1778.3	1319.5	1220.4	1119.9
70°	2043.6	1434.1	994.4	905.2	829.0
72.5°	1820.8	1122.1	691.5	629.6	568.9
75°	1453.6	902.6	449.1	395.8	353.1
77.5°	1026.1	696.0	253.3	186.9	158.1
80°	679.6	437.2	91.1	55.8	55.3
82.5°	363.5	168.3	8.6	0.0	0.0
85°	80.8	15.7	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)