

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: P188899

Luminaire Tested: **VI-M-256-735-5N-VL-56-N06-N-S**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P188899  
Test Lab: Intertek  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VI-M-256-735-5N-VL-56-N06-N-S  
Description: Visium 600, Narrow Optics, 120-277VAC, Solite Lens  
Light Source: -  
Ballast/Driver: -

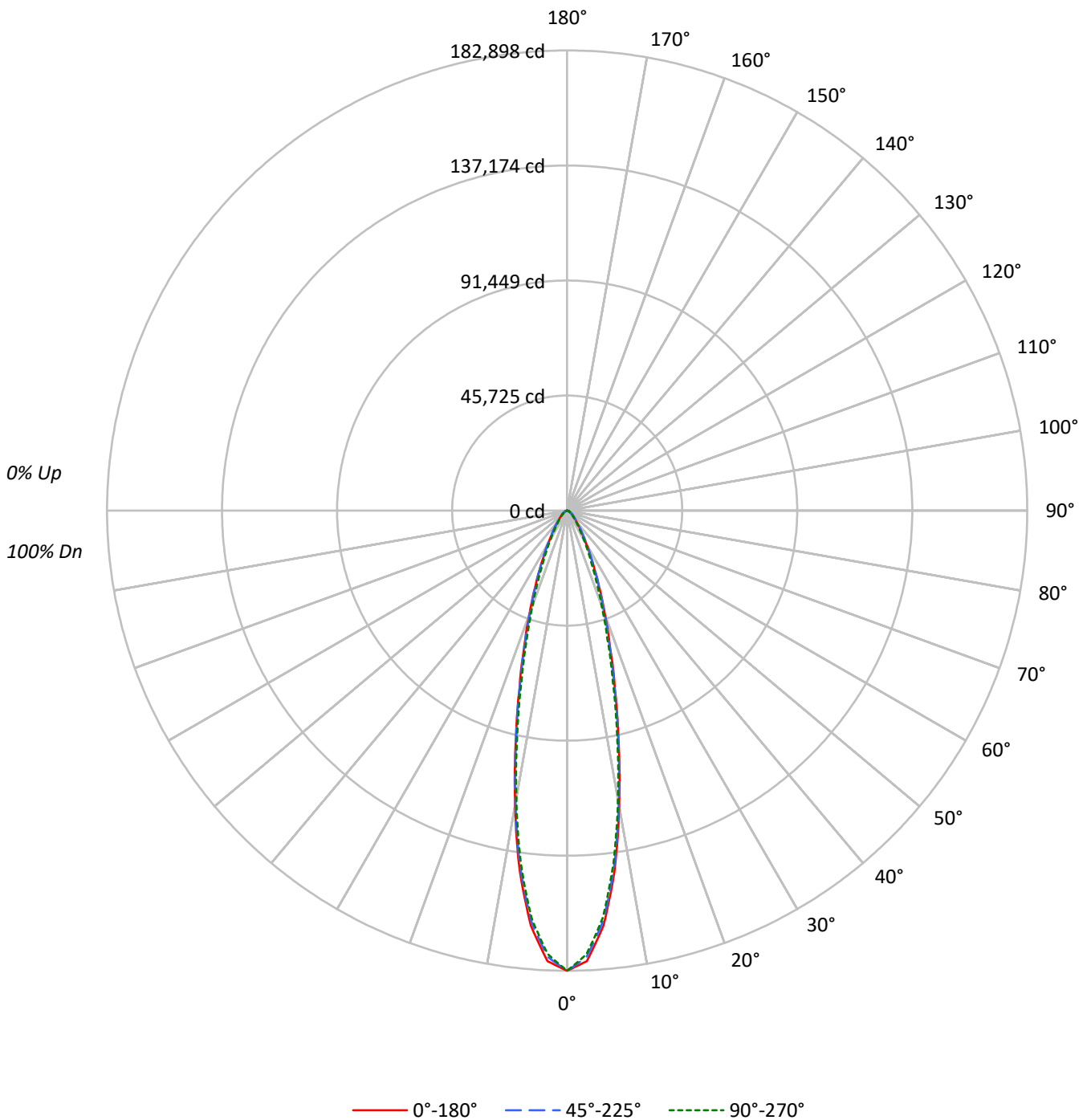
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58403.8 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.42 / 0.46  
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 639.4  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94				94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89				89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84				84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79				79
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75				75
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72				72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68				68
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65				65
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63				63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60				60

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

	0°	45°	90°
0°	1069540	1069540	1069540
5°	972118	962028	953898
10°	707839	702114	690758
15°	444118	439618	424548
20°	272694	268023	248308
25°	166214	166015	145829
30°	102022	105293	87583
35°	65143	69175	55136
40°	44433	47804	37592
45°	33092	34747	28069
50°	26092	26435	22165
55°	21657	20965	17496
60°	18496	17220	13537
65°	16020	13628	9974
70°	13731	10857	6697
75°	11130	7476	3482
80°	8180	2829	532
85°	1704	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14159.7	24.2
10°-20°	20260.7	34.7
20°-30°	11821.8	20.2
30°-40°	5876.7	10.1
40°-50°	3119.2	5.3
50°-60°	1808.9	3.1
60°-70°	974.0	1.7
70°-80°	358.8	0.6
80°-90°	23.9	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°	46242.2	79.2
0°-40°	52118.9	89.2
0°-60°	57047.0	97.7
0°-90°	58403.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58403.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	182898	182898	182898	182898	182898	
5°	165606	165081	163887	162777	162502	###
15°	73359	73671	72616	70888	70127	20600
25°	25761	26019	25730	23978	22601	12185
35°	9125	9524	9690	8598	7724	5936
45°	4002	4131	4202	3734	3394	3160
55°	2124	2111	2056	1876	1716	1926
65°	1158	1105	985	829	721	1157
75°	493	457	331	216	154	534
85°	25	0	0	0	0	71
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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CATALOG NUMBER: VI-M-256-735-5N-VL-56-N06-N-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	182898.3	182898.3	182898.3	182898.3	182898.3
2.5°	179254.5	178613.7	177585.5	176616.4	176475.9
5°	165606.0	165080.7	163887.1	162777.3	162502.1
7.5°	144437.6	144095.2	143010.3	141665.2	141268.1
10°	119206.1	119269.3	118242.1	116718.2	116329.6
12.5°	94460.8	94716.5	93827.9	92096.4	91609.9
15°	73359.2	73671.3	72616.0	70887.7	70126.7
17.5°	56720.7	56885.8	55889.2	54022.4	52985.7
20°	43820.1	43947.1	43069.5	41212.0	39901.5
22.5°	33722.0	33542.7	33253.8	31433.8	30017.0
25°	25760.6	26019.0	25729.7	23977.7	22601.3
27.5°	19687.0	20065.9	19959.6	18342.4	17053.7
30°	15109.1	15540.5	15593.5	14121.1	12970.7
32.5°	11685.2	12102.4	12253.1	10982.6	9940.0
35°	9125.3	9524.5	9690.0	8598.0	7723.5
37.5°	7232.1	7558.4	7749.0	6831.2	6108.5
40°	5820.7	6088.3	6262.3	5490.3	4924.5
42.5°	4751.6	4963.5	5085.7	4493.8	4055.0
45°	4001.5	4131.2	4201.6	3733.9	3394.1
47.5°	3381.1	3462.4	3478.2	3138.0	2880.1
50°	2868.1	2918.9	2905.8	2649.8	2436.4
52.5°	2456.4	2468.9	2426.0	2229.8	2052.4
55°	2124.2	2110.7	2056.4	1875.8	1716.1
57.5°	1828.8	1804.2	1751.3	1546.4	1422.3
60°	1581.5	1546.9	1472.4	1279.3	1157.5
62.5°	1359.1	1326.4	1216.5	1048.7	937.6
65°	1157.8	1104.8	984.9	828.9	720.8
67.5°	974.7	917.0	799.2	645.3	547.7
70°	803.1	753.1	635.0	470.9	391.7
72.5°	641.5	599.0	468.1	334.0	266.0
75°	492.6	456.6	330.9	216.3	154.1
77.5°	369.6	309.0	197.2	102.5	69.0
80°	242.9	190.6	84.0	33.7	15.8
82.5°	115.3	54.5	8.7	0.0	0.0
85°	25.4	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)