

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: P188883

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P188883  
Test Lab: Intertek  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VI-M-256-750-5N-VL-56-N06-N-G  
Description: Visium 600, Narrow Optics, 120-277VAC  
  
Light Source: -  
Ballast/Driver: -

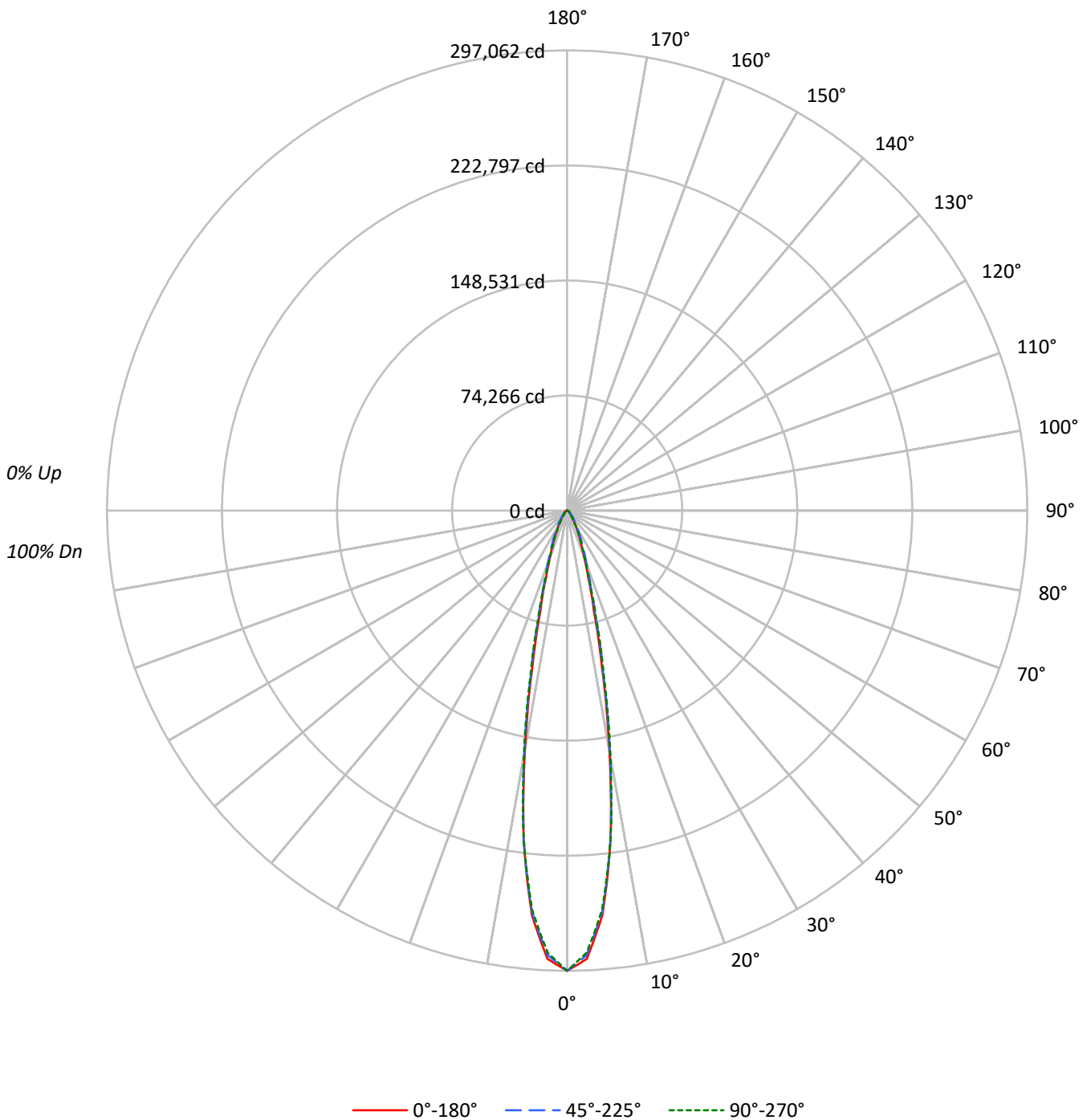
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62061.1 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.36  
Luminous Opening: Rectangular (W 0.79' x L: 2.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 639.7  
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91					91			
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86					86			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83					83			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79					79			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77					77			
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74					74			
8	89	81	77	74	88	81	76	73	80	76	73	79	75	73	78	75	73	71					71			
9	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	70	69					69			
10	84	76	72	69	83	76	72	69	75	71	69	75	71	68	74	71	68	67					67			

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

	0°	45°	90°
0°	1737138	1737138	1737138
5°	1537637	1527426	1518913
10°	931282	944493	953319
15°	403013	431011	436156
20°	203133	226911	208369
25°	116424	140307	119082
30°	70988	91684	66389
35°	45401	63198	37598
40°	28661	41888	23981
45°	22797	27709	19154
50°	20921	20933	17251
55°	19915	18536	15953
60°	18252	17571	14764
65°	16011	16456	11968
70°	13699	12370	8427
75°	10273	5563	3800
80°	4711	461	135
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21534.1	34.7
10°-20°	21109.3	34.0
20°-30°	9499.2	15.3
30°-40°	4620.4	7.4
40°-50°	2294.6	3.7
50°-60°	1594.0	2.6
60°-70°	1064.1	1.7
70°-80°	338.1	0.5
80°-90°	7.3	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°	52142.6	84.0
0°-40°	56763.0	91.5
0°-60°	60651.6	97.7
0°-90°	62061.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	62061.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	297062	297062	297062	297062	297062	
5°	261945	261005	260206	258635	258756	###
15°	66570	68794	71194	72265	72044	20219
25°	18044	19572	21745	20257	18456	8667
35°	6360	7170	8853	6875	5267	4086
45°	2757	2850	3351	2648	2316	2195
55°	1953	1788	1818	1709	1565	1737
65°	1157	1084	1189	1058	865	1156
75°	455	418	246	224	168	483
85°	0	0	0	0	0	23
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°	297061.9	297061.9	297061.9	297061.9	297061.9
2.5°	289699.8	288227.9	287323.6	285381.1	285711.9
5°	261945.4	261005.3	260205.9	258635.0	258755.7
7.5°	214756.1	214966.5	214707.7	214771.5	214662.3
10°	156835.9	158489.3	159060.8	160187.6	160547.1
12.5°	103592.2	105901.6	107811.2	109502.2	109910.0
15°	66569.5	68794.1	71194.2	72265.3	72044.1
17.5°	45131.3	47106.5	49301.4	48920.7	47827.5
20°	32642.1	34416.6	36463.1	35275.2	33483.6
22.5°	24241.7	25932.7	28089.8	26642.4	24666.7
25°	18044.0	19572.0	21745.4	20257.2	18455.9
27.5°	13590.8	14954.0	17006.3	15343.6	13528.0
30°	10513.1	11666.0	13578.1	11719.6	9831.9
32.5°	8241.6	9166.7	10978.0	8993.7	7196.4
35°	6359.8	7169.7	8852.8	6874.7	5266.8
37.5°	4812.9	5568.4	7051.4	5220.4	3960.0
40°	3754.6	4326.8	5487.3	3996.6	3141.5
42.5°	3123.2	3438.6	4245.3	3179.5	2639.9
45°	2756.6	2849.9	3350.6	2647.6	2316.1
47.5°	2503.2	2459.1	2711.1	2302.4	2089.1
50°	2299.7	2201.9	2301.0	2067.8	1896.2
52.5°	2120.7	1973.4	2011.7	1872.4	1710.7
55°	1953.4	1788.2	1818.1	1708.6	1564.8
57.5°	1767.1	1640.7	1646.1	1570.1	1422.7
60°	1560.6	1472.5	1502.4	1415.3	1262.4
62.5°	1352.0	1287.0	1361.5	1255.1	1068.3
65°	1157.1	1084.5	1189.3	1058.2	864.9
67.5°	986.8	892.3	972.1	833.0	687.0
70°	801.2	700.8	723.5	609.4	492.9
72.5°	630.1	546.1	458.1	401.2	322.1
75°	454.7	418.1	246.2	223.8	168.2
77.5°	281.1	286.7	92.2	77.2	73.6
80°	139.9	104.0	13.7	0.7	4.0
82.5°	15.5	5.1	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	0.2	0.0
172.5°	0.0	0.0	0.0	0.0	0.7
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)