

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: P188877

Luminaire Tested: **VI-M-128-750-5EW-VL-56-N06-N-G**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P188877  
Test Lab: Intertek  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VI-M-128-750-5EW-VL-56-N06-N-G  
Description: Visium 300, Extra Wide Optics, 120-277VAC  
Light Source: -  
Ballast/Driver: -

**Summary**

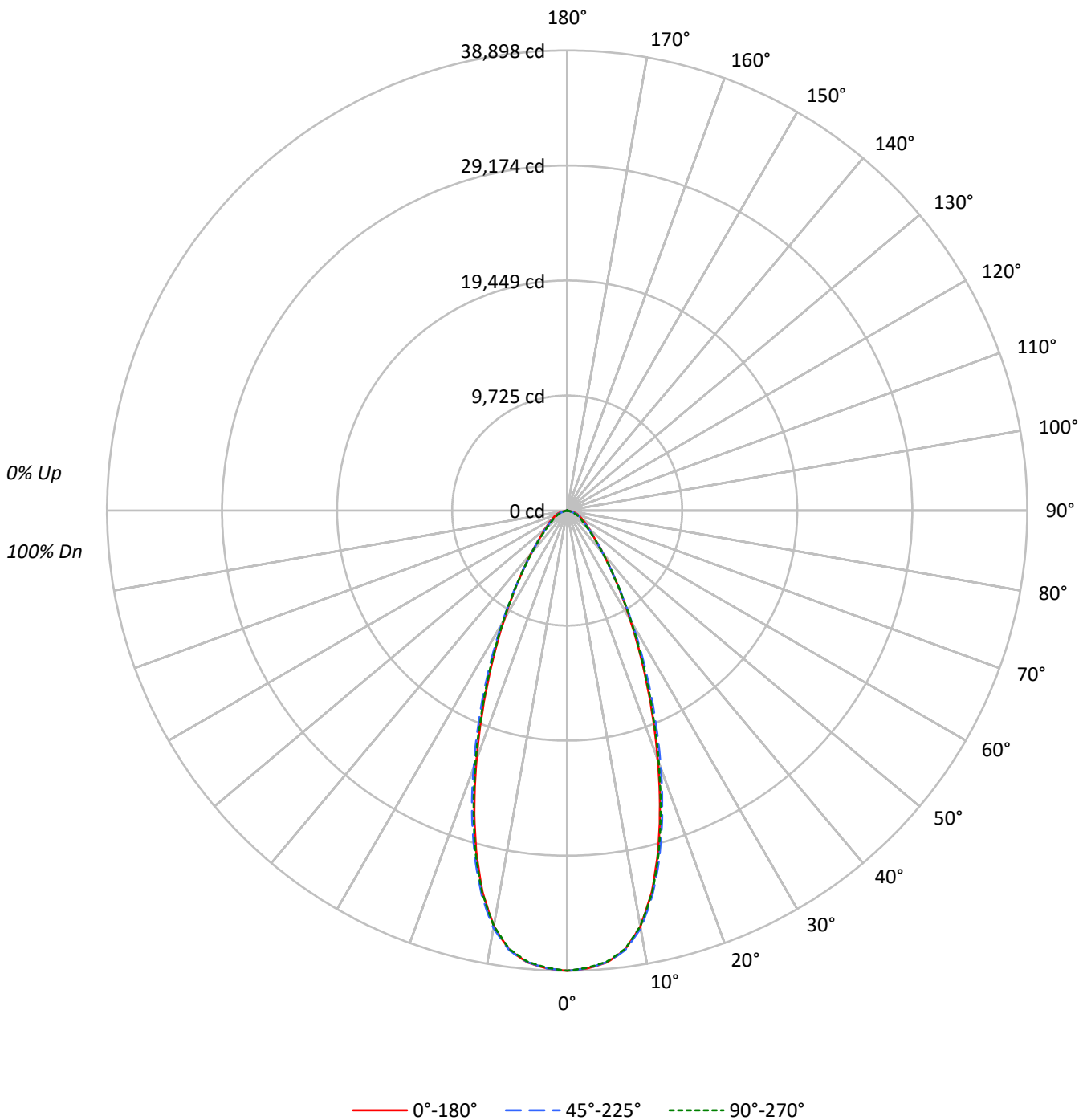
Lumens per Lamp: N/A  
Luminaire Lumens: 29481.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.73  
Luminous Opening: Rectangular (W 0.79' x L: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 324.5  
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	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	100	100	
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92	
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84	
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77	
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71	71	71	71	
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66	
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61	
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57	
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	56	52	51	51	51	51	
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48	

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

	0°	45°	90°
0°	398496	398496	398496
5°	394470	394193	393741
10°	371159	372813	370858
15°	315325	320172	317120
20°	244133	251873	246512
25°	178088	185413	180078
30°	125729	129617	127563
35°	88250	88292	88388
40°	62840	62396	62012
45°	47055	46802	45111
50°	38520	36865	34784
55°	33341	30746	28876
60°	30271	28123	25458
65°	28017	26674	21717
70°	26787	20257	16645
75°	23480	14032	10224
80°	14283	6088	3044
85°	341	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3580.1	12.1
10°-20°	8240.8	28.0
20°-30°	7423.2	25.2
30°-40°	4529.5	15.4
40°-50°	2578.2	8.7
50°-60°	1633.7	5.5
60°-70°	1048.1	3.6
70°-80°	419.4	1.4
80°-90°	27.9	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°	19244.1	65.3
0°-40°	23773.7	80.6
0°-60°	27985.6	94.9
0°-90°	29481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	38898	38898	38898	38898	38898	
5°	38359	38364	38332	38294	38288	###
15°	29731	29936	30188	30080	29900	8158
25°	15755	16186	16403	16065	15931	7266
35°	7056	7248	7060	6911	7068	4505
45°	3248	3503	3230	3116	3114	2583
55°	1867	2014	1721	1701	1617	1696
65°	1156	1144	1100	996	896	1152
75°	593	498	354	282	258	611
85°	3	0	0	0	0	59
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°	38898.5	38898.5	38898.5	38898.5	38898.5
2.5°	38748.0	38755.3	38742.4	38744.0	38689.2
5°	38358.9	38363.7	38332.0	38294.1	38288.1
7.5°	37440.1	37471.3	37492.1	37427.8	37401.8
10°	35679.6	35723.2	35838.6	35742.3	35650.7
12.5°	33023.9	33107.9	33312.8	33230.2	33117.1
15°	29731.1	29935.9	30188.1	30079.6	29900.3
17.5°	26083.7	26455.7	26728.5	26530.7	26277.3
20°	22393.4	22882.7	23103.4	22902.7	22611.7
22.5°	18915.1	19414.0	19621.5	19360.6	19120.1
25°	15755.0	16186.5	16403.0	16065.4	15931.1
27.5°	12988.6	13319.4	13503.2	13159.9	13161.9
30°	10628.6	10872.9	10957.2	10669.2	10783.6
32.5°	8677.4	8870.5	8807.5	8593.5	8751.9
35°	7056.5	7248.3	7059.8	6910.6	7067.5
37.5°	5747.0	5953.5	5711.8	5588.2	5711.6
40°	4698.9	4924.9	4665.7	4551.8	4637.0
42.5°	3880.5	4124.7	3862.5	3747.5	3783.6
45°	3247.9	3502.8	3230.4	3116.0	3113.7
47.5°	2776.8	3011.7	2726.4	2618.0	2595.0
50°	2416.9	2614.0	2313.1	2224.7	2182.5
52.5°	2113.0	2282.2	1981.9	1924.7	1871.9
55°	1866.7	2014.2	1721.4	1700.8	1616.7
57.5°	1669.7	1789.4	1528.2	1516.2	1418.3
60°	1477.4	1560.3	1372.6	1340.0	1242.5
62.5°	1310.7	1342.3	1255.7	1172.2	1075.7
65°	1155.8	1144.5	1100.4	996.0	895.9
67.5°	1004.9	970.2	881.6	801.3	724.9
70°	894.3	796.3	676.3	608.5	555.7
72.5°	747.7	630.0	496.6	429.7	408.5
75°	593.2	497.8	354.5	281.6	258.3
77.5°	410.6	367.8	227.8	149.5	134.8
80°	242.1	217.0	103.2	54.7	51.6
82.5°	93.2	68.4	28.2	4.8	2.1
85°	2.9	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°	0.2	0.0	0.0	0.0	0.0
177.5°	0.8	0.4	0.0	0.0	0.0
180°	0.1	0.1	0.1	0.1	0.1

(END OF REPORT)