

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: P188894

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188894
Test Lab: Intertek
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VI-M-128-750-5N-VL-56-N06-N-S
Description: Visium 300, Narrow Optics, 120-277VAC, Solite Lens
Light Source: -
Ballast/Driver: -

Summary

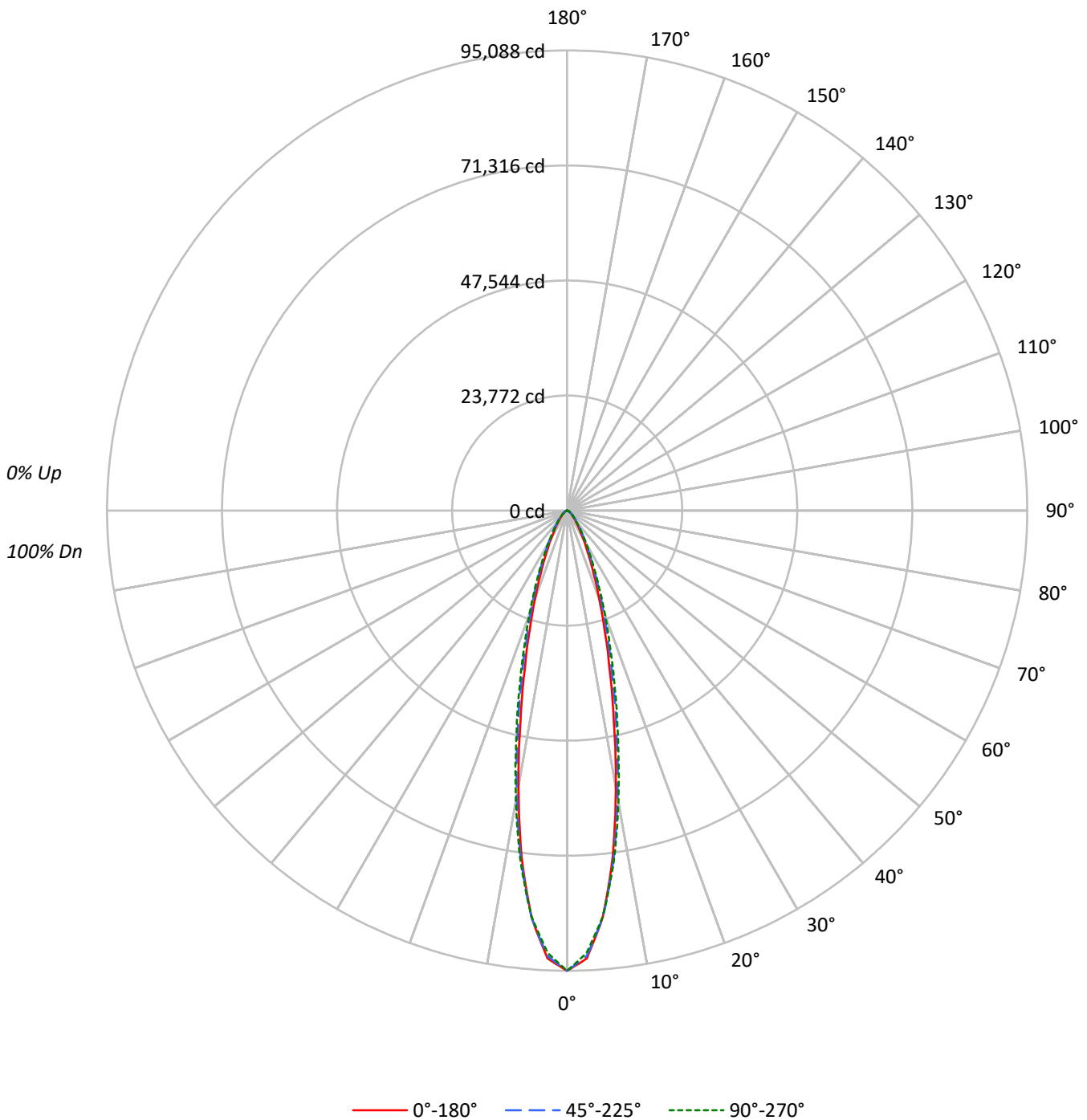
Lumens per Lamp: N/A
Luminaire Lumens: 29225.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.43 / 0.45
Luminous Opening: Rectangular (W 0.79' x L: 1.33' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	80	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	68	74	70	67	66
9	82	74	69	65	81	73	69	65	72	68	65	72	68	65	71	67	65	63
10	79	71	66	63	78	71	66	63	70	65	62	69	65	62	68	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	974128	974128	974128
5°	867567	868142	866061
10°	602554	623069	633974
15°	357742	385132	402647
20°	210105	233480	247287
25°	123871	142669	149077
30°	76032	90763	91564
35°	49218	60827	58593
40°	33430	42407	39057
45°	24619	30878	27826
50°	19363	23154	20810
55°	15591	17623	15843
60°	12728	13814	12310
65°	10288	10879	9524
70°	8135	8156	6895
75°	5977	5427	3962
80°	2796	1675	979
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7253.0	24.8
10°-20°	10158.4	34.8
20°-30°	5881.0	20.1
30°-40°	2958.1	10.1
40°-50°	1549.3	5.3
50°-60°	849.4	2.9
60°-70°	429.2	1.5
70°-80°	141.8	0.5
80°-90°	4.8	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°	23292.5	79.7
0°-40°	26250.6	89.8
0°-60°	28649.3	98.0
0°-90°	29225.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29225.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	95088	95088	95088	95088	95088	
5°	84364	84321	84420	84380	84217	###
15°	33730	34616	36313	37712	37964	9536
25°	10959	11569	12622	13258	13188	5230
35°	3936	4266	4864	4872	4685	2550
45°	1699	1836	2131	2040	1921	1348
55°	873	912	987	944	887	793
65°	424	436	449	412	393	427
75°	151	149	137	108	100	162
85°	0	0	0	0	0	8
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°	95087.7	95087.7	95087.7	95087.7	95087.7
2.5°	92626.9	92379.9	92139.1	91857.0	91497.9
5°	84363.7	84321.2	84419.6	84379.9	84217.3
7.5°	72068.9	72360.2	73027.2	73473.9	73476.0
10°	57923.6	58583.2	59895.8	60828.7	60944.1
12.5°	44543.0	45452.3	47090.1	48365.5	48590.2
15°	33730.5	34615.7	36313.0	37712.4	37964.4
17.5°	25517.8	26311.9	27886.7	29200.0	29416.3
20°	19272.2	20005.9	21416.3	22550.2	22682.7
22.5°	14540.8	15213.6	16429.5	17329.4	17343.2
25°	10958.6	11568.6	12621.6	13257.6	13188.5
27.5°	8336.3	8858.9	9782.9	10193.5	10055.3
30°	6427.4	6872.2	7672.7	7900.3	7740.4
32.5°	5015.4	5395.5	6093.9	6188.1	6004.6
35°	3935.5	4266.4	4863.7	4872.2	4685.1
37.5°	3122.1	3405.3	3915.1	3871.6	3679.1
40°	2499.8	2735.3	3171.0	3095.4	2920.5
42.5°	2042.9	2224.3	2588.8	2498.8	2351.4
45°	1699.3	1835.9	2131.3	2040.5	1920.6
47.5°	1433.3	1534.0	1760.1	1674.5	1581.7
50°	1214.9	1289.7	1452.8	1377.1	1305.7
52.5°	1029.7	1083.8	1195.7	1132.5	1075.6
55°	872.9	912.5	986.7	943.5	887.0
57.5°	737.8	766.6	817.3	776.4	732.3
60°	621.2	643.5	674.2	637.0	600.8
62.5°	518.5	533.6	552.9	516.7	489.6
65°	424.4	435.6	448.8	411.8	392.9
67.5°	342.2	347.2	353.9	320.4	303.5
70°	271.6	271.7	272.3	240.5	230.2
72.5°	207.1	206.0	201.2	170.8	161.3
75°	151.0	148.7	137.1	107.6	100.1
77.5°	98.8	95.5	79.4	51.6	44.3
80°	47.4	43.9	28.4	17.8	16.6
82.5°	6.5	7.1	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	0.0	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°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)