

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: P188878

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188878
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-G
Description: Visium 300, Narrow Optics, 120-277VAC
Light Source: -
Ballast/Driver: -

Summary

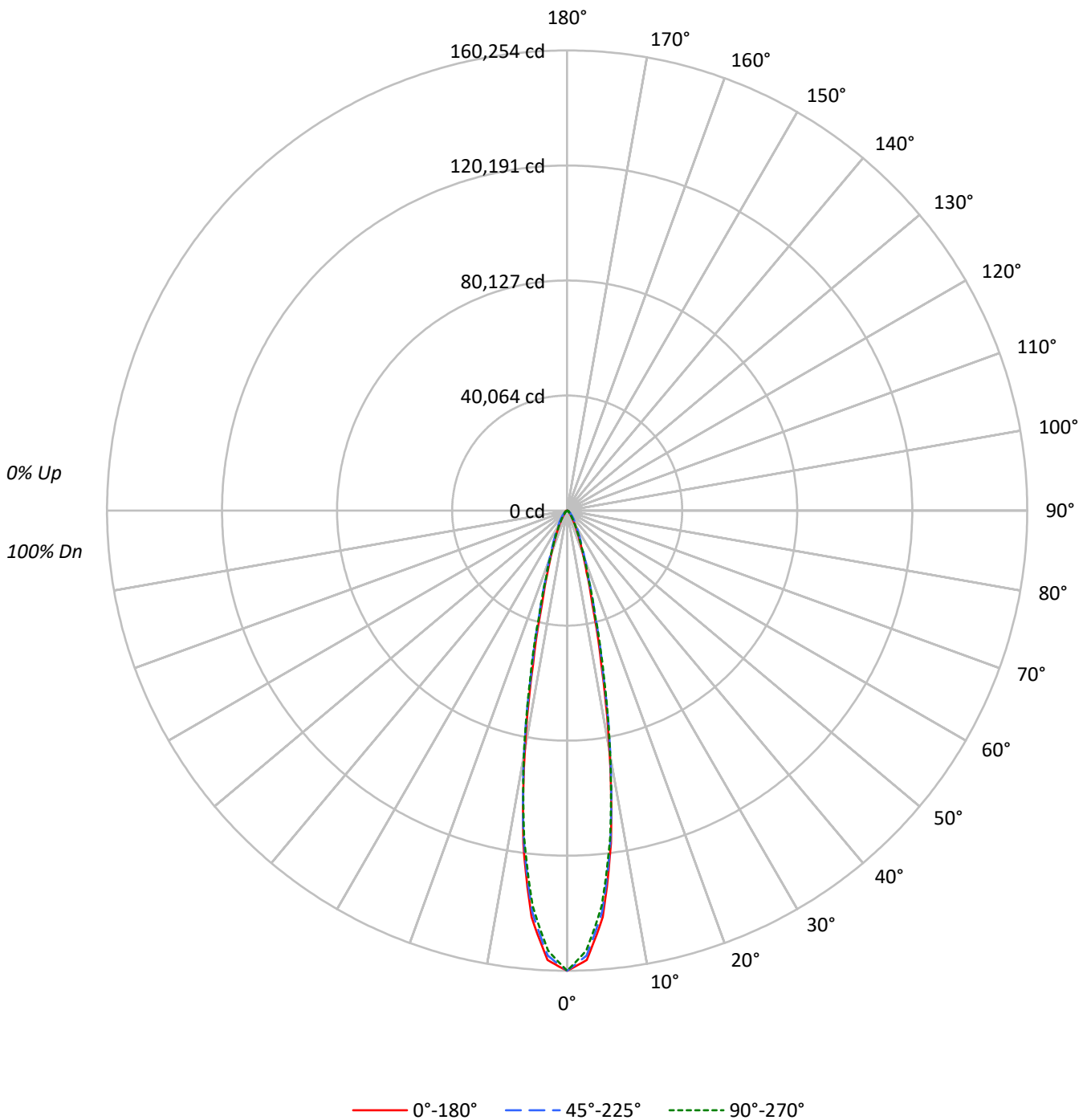
Lumens per Lamp: N/A
Luminaire Lumens: 31824.9 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.36
Luminous Opening: Rectangular (W 0.79' x L: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 324.8
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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91					91			
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87					87			
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84					84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81					81			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	79	84	81	79	78					78			
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	82	79	76	75					75			
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	79	76	74	73					73			
9	87	80	76	73	86	80	75	73	79	75	72	78	75	72	77	74	72	71					71			
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69					69			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1641725	1641725	1641725
5°	1460888	1441175	1420544
10°	882122	900803	900344
15°	361077	392586	395572
20°	174371	195167	181629
25°	96126	115985	98755
30°	56521	76422	58491
35°	34906	53433	35245
40°	22007	37993	21492
45°	17099	27547	16253
50°	15377	20034	14644
55°	14503	16091	13317
60°	13217	13978	11935
65°	11631	12271	9354
70°	9708	8495	5170
75°	6183	2933	1041
80°	230	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11613.8	36.5
10°-20°	11033.4	34.7
20°-30°	4559.6	14.3
30°-40°	2217.4	7.0
40°-50°	1113.8	3.5
50°-60°	722.9	2.3
60°-70°	448.1	1.4
70°-80°	115.4	0.4
80°-90°	0.5	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°	27206.9	85.5
0°-40°	29424.3	92.5
0°-60°	31261.0	98.2
0°-90°	31824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31824.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	160254	160254	160254	160254	160254	
5°	142059	141098	140142	139016	138136	###
15°	34045	35386	37016	37452	37297	10495
25°	8504	9312	10261	9685	8737	4108
35°	2791	3208	4272	3458	2818	1812
45°	1180	1244	1901	1257	1122	938
55°	812	773	901	750	746	724
65°	480	468	506	451	386	468
75°	156	147	74	68	26	165
85°	0	0	0	0	0	1
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°	160254.0	160254.0	160254.0	160254.0	160254.0
2.5°	156648.7	155800.7	155110.0	154353.7	153311.3
5°	142059.3	141097.9	140142.4	139016.3	138136.2
7.5°	116863.4	116342.0	115787.3	115036.6	114678.7
10°	84798.6	85492.2	86594.4	86491.0	86550.3
12.5°	54696.1	56281.0	57786.0	58403.8	58810.5
15°	34044.9	35386.1	37015.8	37451.9	37297.3
17.5°	22606.7	23672.0	24940.3	24861.5	24168.8
20°	15994.4	16885.8	17902.0	17554.1	16660.2
22.5°	11592.3	12428.9	13335.2	12903.7	11933.6
25°	8504.0	9312.3	10260.9	9685.1	8736.6
27.5°	6301.4	7084.7	8063.6	7400.2	6521.0
30°	4778.0	5481.9	6460.4	5730.3	4944.6
32.5°	3655.2	4224.3	5258.0	4467.3	3755.1
35°	2791.1	3208.0	4272.5	3458.4	2818.2
37.5°	2122.0	2471.6	3481.7	2637.5	2108.3
40°	1645.6	1914.1	2841.0	2020.4	1607.1
42.5°	1342.6	1518.4	2327.7	1552.8	1300.7
45°	1180.2	1243.8	1901.4	1256.9	1121.8
47.5°	1053.9	1070.4	1548.7	1068.2	1012.9
50°	964.8	959.0	1257.0	932.2	918.8
52.5°	874.3	850.9	1035.4	831.4	809.9
55°	812.0	773.1	900.9	750.3	745.6
57.5°	746.8	700.8	774.7	687.1	665.0
60°	645.1	623.3	682.2	624.7	582.5
62.5°	544.0	559.0	593.8	531.9	477.5
65°	479.8	467.8	506.2	450.8	385.9
67.5°	384.0	367.8	394.0	322.0	279.7
70°	324.1	286.3	283.6	222.4	172.6
72.5°	239.1	217.7	180.3	150.3	74.6
75°	156.2	147.3	74.1	68.1	26.3
77.5°	68.6	66.8	28.9	16.5	0.0
80°	3.9	13.7	0.0	0.0	0.0
82.5°	0.0	0.0	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°	0.0	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)