

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: P188876

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P188876
Test Lab: Intertek
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VI-M-128-750-5EL-VL-56-N06-N-G
Description: Visium 300, Elliptical Optics, 120-277VAC
Light Source: -
Ballast/Driver: -

Summary

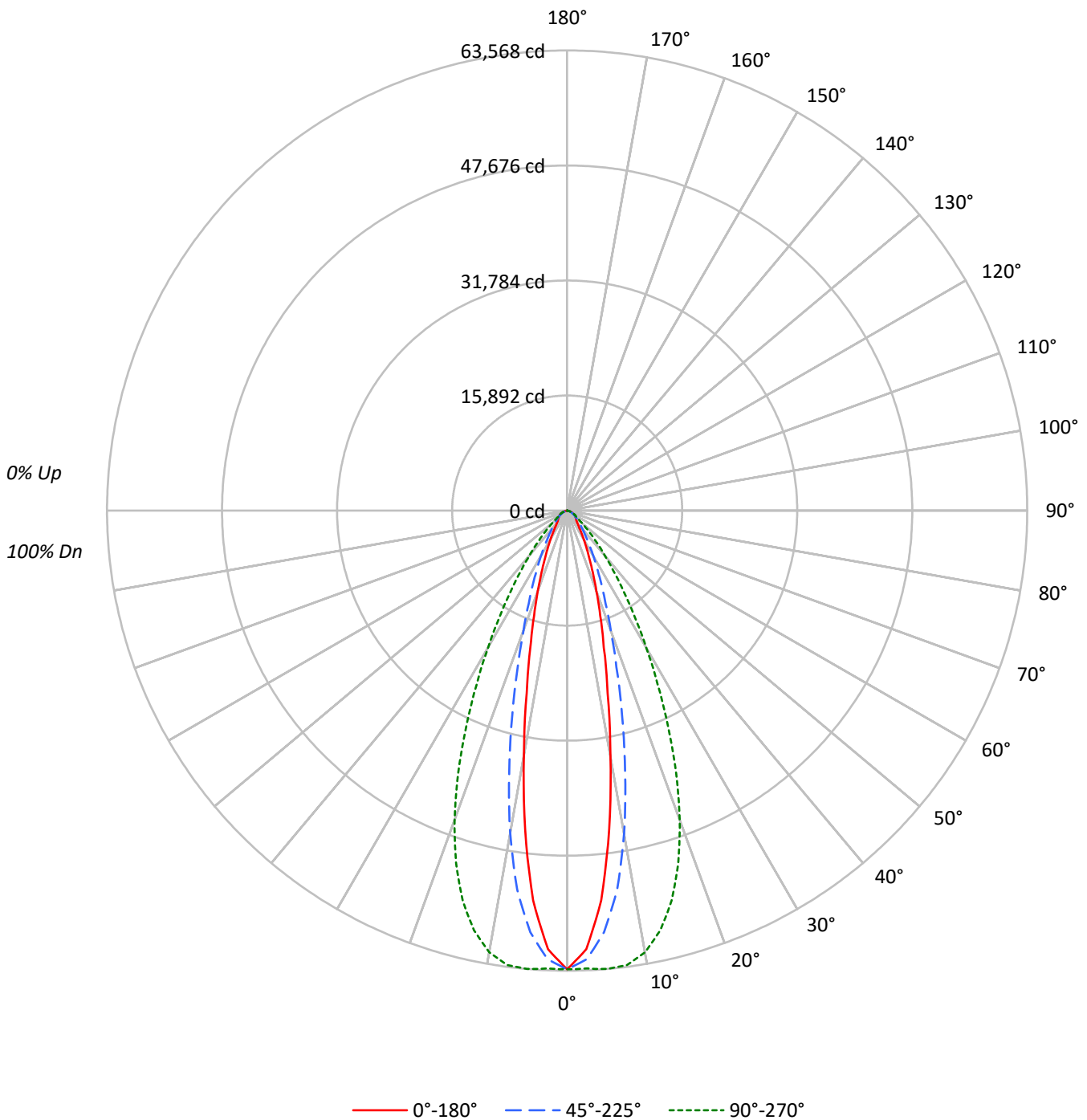
Lumens per Lamp: N/A
Luminaire Lumens: 29941.5 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.82 / 0.52
Luminous Opening: Rectangular (W 0.79' x L: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 324.7
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80				80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75				75
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70				70
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60				60
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57				57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54				54

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	649119	649119	649119
5°	555857	601245	653706
10°	357595	471207	644392
15°	207933	310006	591602
20°	128999	191558	495692
25°	81194	125398	373505
30°	53930	84850	258499
35°	37166	59187	168923
40°	28390	42995	108408
45°	25676	33447	68427
50°	24810	27535	41612
55°	24550	24039	28291
60°	22886	20561	25861
65°	20156	17453	22793
70°	16831	12928	16989
75°	12658	7521	11202
80°	5434	1929	2861
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5214.7	17.4
10°-20°	9395.0	31.4
20°-30°	7095.6	23.7
30°-40°	3825.0	12.8
40°-50°	2066.6	6.9
50°-60°	1283.6	4.3
60°-70°	787.6	2.6
70°-80°	265.7	0.9
80°-90°	7.7	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°	21705.2	72.5
0°-40°	25530.2	85.3
0°-60°	28880.4	96.5
0°-90°	29941.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29941.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	63363	63363	63363	63363	63363	
5°	54052	55102	58466	62108	63568	###
15°	19605	21362	29230	47096	55780	5614
25°	7183	7961	11094	21977	33043	3406
35°	2972	3406	4733	7275	13507	1926
45°	1772	1751	2309	3119	4723	1385
55°	1374	1280	1346	1553	1584	1216
65°	832	766	720	835	940	822
75°	320	284	190	196	283	338
85°	0	0	0	0	0	15
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°	63362.6	63362.6	63362.6	63362.6	63362.6
2.5°	60639.5	60954.8	62022.1	63109.4	63325.9
5°	54052.5	55102.1	58466.1	62108.0	63567.5
7.5°	44423.0	46393.5	52818.3	60245.8	63319.4
10°	34375.7	36743.0	45297.2	56969.5	61945.5
12.5°	25837.0	28043.9	36997.9	52452.2	59387.0
15°	19605.4	21362.4	29229.6	47096.3	55780.4
17.5°	15173.2	16577.6	22662.6	41043.2	51020.8
20°	11832.6	12975.3	17570.9	34547.4	45468.0
22.5°	9197.5	10168.1	13892.6	28060.8	39334.0
25°	7183.0	7960.9	11093.7	21977.0	33043.1
27.5°	5693.5	6292.8	8902.1	16775.1	27123.4
30°	4559.0	5051.0	7172.8	12628.3	21852.3
32.5°	3667.5	4135.6	5807.0	9506.7	17272.8
35°	2971.8	3406.5	4732.6	7274.7	13507.1
37.5°	2471.2	2820.0	3901.1	5725.5	10491.8
40°	2122.9	2357.2	3215.0	4603.7	8106.3
42.5°	1914.4	2004.7	2716.3	3766.5	6207.4
45°	1772.2	1751.1	2308.6	3118.7	4723.0
47.5°	1657.3	1574.8	1980.4	2619.6	3507.4
50°	1556.7	1454.4	1727.7	2215.8	2610.9
52.5°	1464.8	1362.2	1521.2	1847.7	1962.8
55°	1374.5	1280.1	1345.9	1552.7	1584.0
57.5°	1260.0	1173.4	1176.7	1306.3	1391.1
60°	1117.0	1049.7	1003.5	1122.8	1262.2
62.5°	966.9	910.8	855.2	979.4	1143.1
65°	831.5	766.3	720.0	834.8	940.3
67.5°	688.7	623.1	576.1	665.9	746.5
70°	561.9	492.4	431.6	477.9	567.2
72.5°	438.0	373.6	294.8	319.1	462.7
75°	319.8	283.7	190.0	196.5	283.0
77.5°	200.6	184.5	101.7	91.2	141.7
80°	92.1	74.9	32.7	29.7	48.5
82.5°	9.0	5.8	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°	0.2	0.2	0.2	0.2	0.2

(END OF REPORT)