



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  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand: io LED

Report Number: P397193

Luminaire Tested: **2VRVT2-LD5-3-FR50-UNV-LA59-CD1-WL-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Eaton or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P397193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-3-FR50-UNV-LA59-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: 

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
a	good	reflector
b	good	lens
c	good	housing
d	good	cord

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 852.1 lumens  
Efficiency: N/A  
Efficacy: 25.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B1 - U2 - G1  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

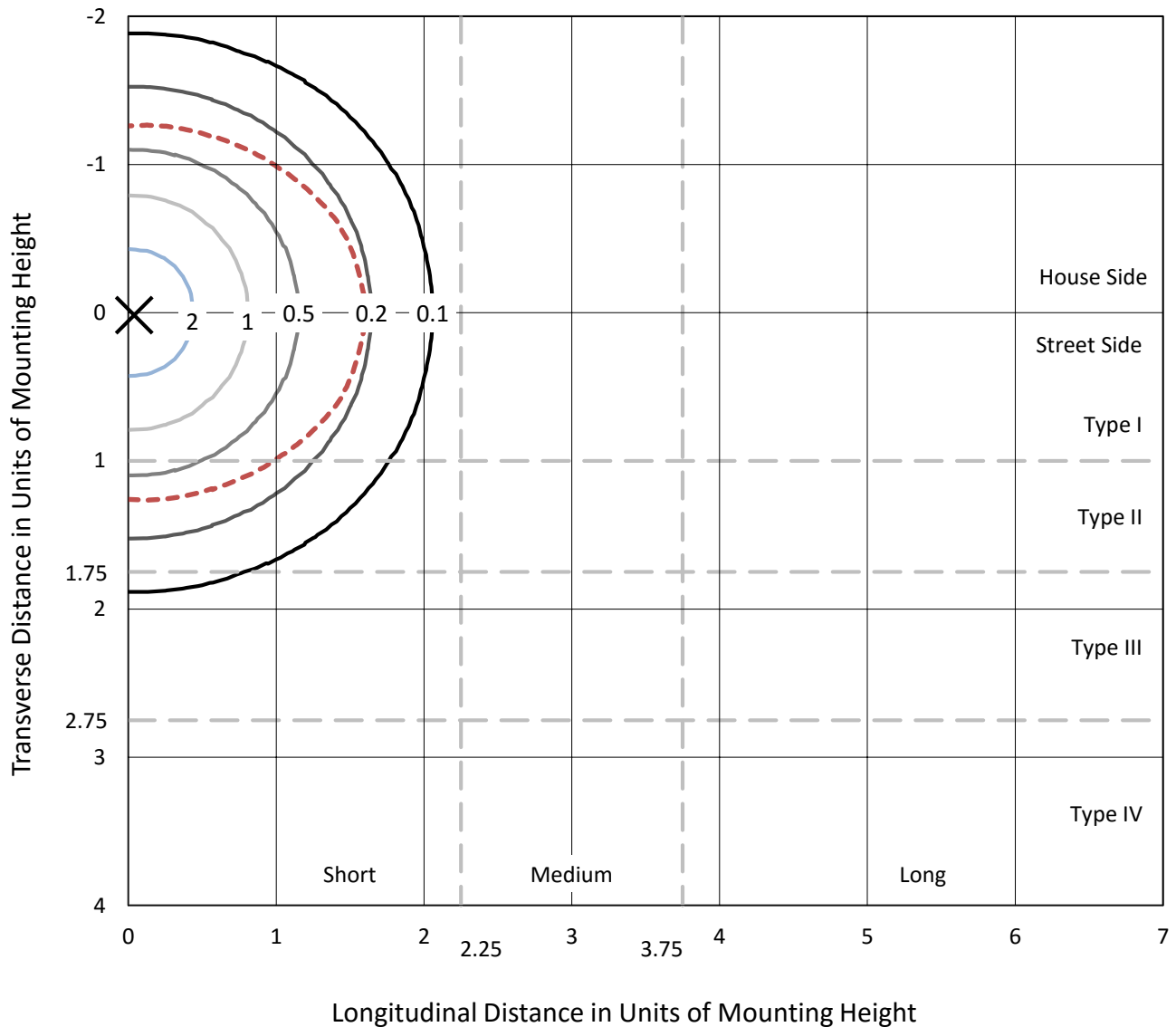


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



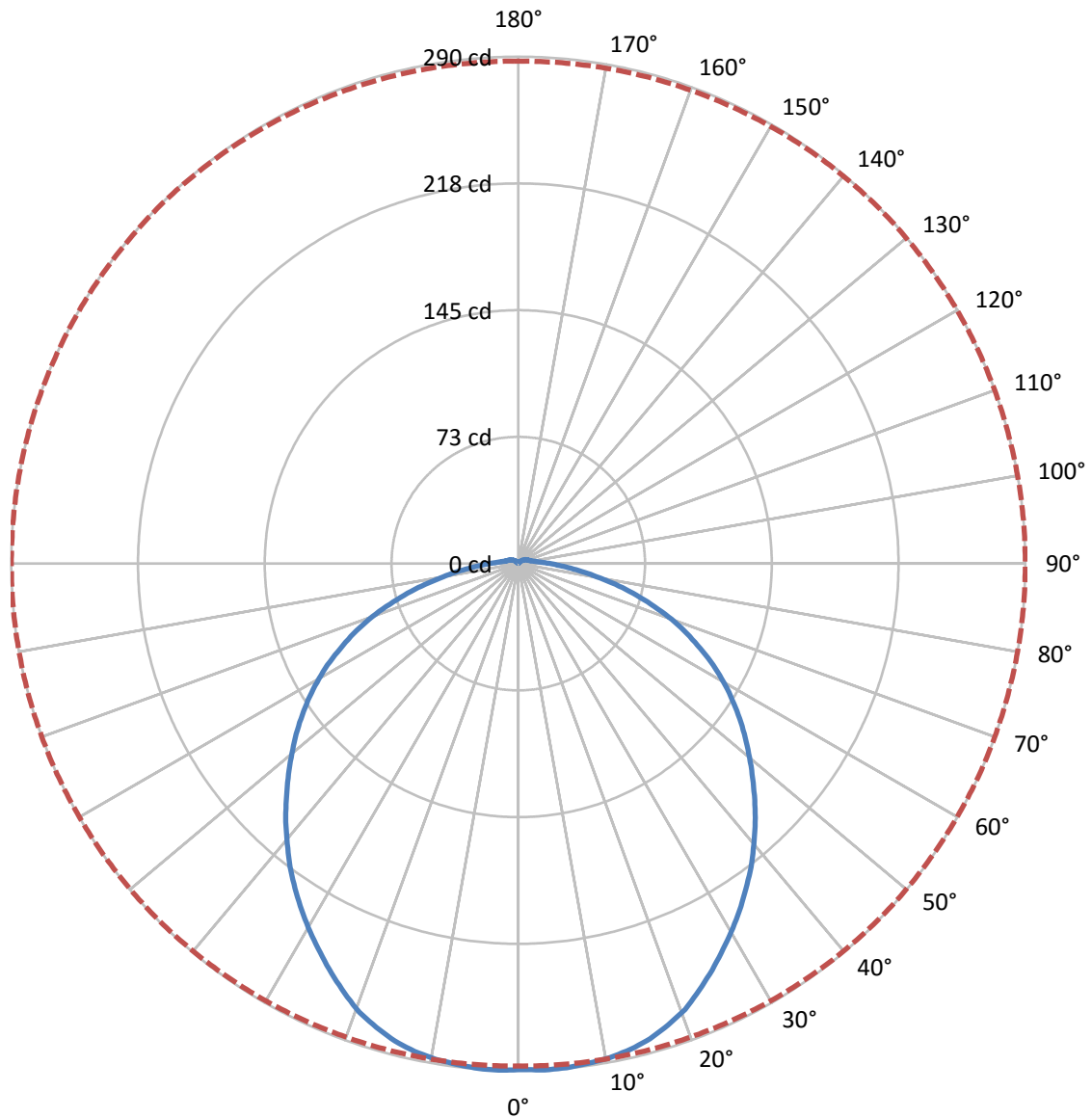
Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Cutoff



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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical



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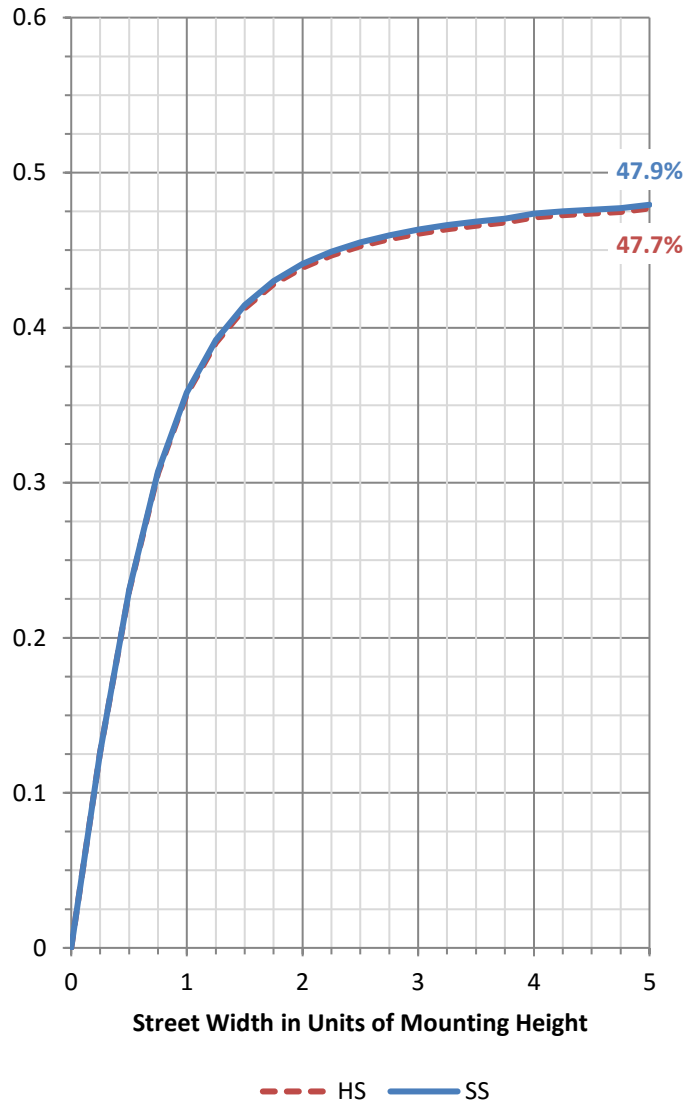
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	414.0	12.1	426.0
	% Fixture	48.6	1.4	50.0
<b>Street Side</b>	Lumens	414.0	12.1	426.0
	% Fixture	48.6	1.4	50.0
<b>Total</b>	Lumens	827.9	24.2	852.1
	% Fixture	97.2	2.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	3.2
10°-20°	78.9	9.3
20°-30°	118.5	13.9
30°-40°	140.3	16.5
40°-50°	142.5	16.7
50°-60°	127.9	15.0
60°-70°	100.5	11.8
70°-80°	63.7	7.5
80°-90°	28.2	3.3
90°-100°	10.8	1.3
100°-110°	6.1	0.7
110°-120°	3.9	0.5
120°-130°	2.2	0.3
130°-140°	0.9	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	827.9	97.2
0°-180°	852.1	100.0





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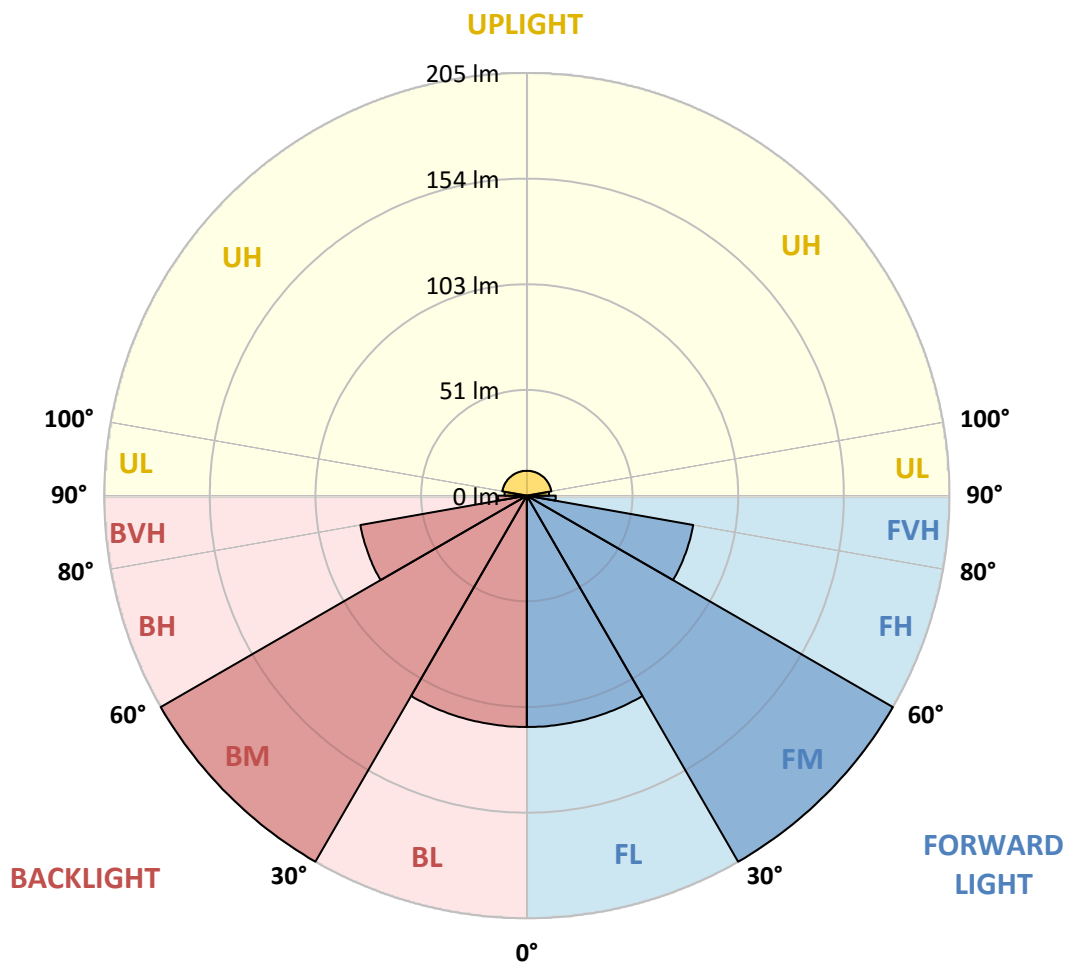
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.4	13.2			
FM (30°-60°)	205.4	24.1			
FH (60°-80°)	82.1	9.6			G0/660
FVH (80°-90°)	14.1	1.7			G1/100
BL (0°-30°)	112.4	13.2	B1/500		
BM (30°-60°)	205.4	24.1	B0/220		
BH (60°-80°)	82.1	9.6	B0/110		G0/660
BVH (80°-90°)	14.1	1.7			G1/100
UL (90°-100°)	10.8	1.3		U2/50	
UH (100°-180°)	12.1	1.4		U2/50	

**BUG Rating: B1-U2-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	289.8	289.8	289.8	289.8	289.8
2.5°	287.8	288.7	290.1	290.4	290.4
5°	287.0	288.1	289.2	290.1	290.1
7.5°	285.0	286.2	288.1	289.0	289.0
10°	282.5	283.9	286.2	287.8	288.1
12.5°	279.2	280.8	283.9	285.6	285.6
15°	275.0	277.2	280.8	282.5	282.2
17.5°	270.5	273.0	276.9	277.8	276.9
20°	265.2	268.2	272.2	272.7	271.6
22.5°	259.3	262.9	266.3	265.4	264.3
25°	252.3	256.8	259.3	257.9	257.0
27.5°	245.6	249.8	251.7	250.0	249.8
30°	237.4	242.2	243.3	242.2	241.9
32.5°	228.5	234.1	234.1	234.1	234.4
35°	219.5	224.3	224.8	225.7	226.5
37.5°	209.7	214.5	215.0	217.3	218.1
40°	198.2	203.6	204.7	208.0	209.2
42.5°	187.6	192.4	194.9	199.1	200.5
45°	175.6	180.9	184.5	189.6	191.8
47.5°	163.8	169.1	173.9	180.3	182.6
50°	152.0	157.4	163.5	171.1	174.2
52.5°	140.6	145.0	153.2	162.1	165.5
55°	128.0	133.6	143.1	152.9	156.2
57.5°	117.3	121.8	133.0	143.6	147.8
60°	105.3	110.3	123.2	133.8	136.6
62.5°	94.9	100.0	113.1	123.8	126.6
65°	84.6	89.3	103.3	112.8	115.4
67.5°	74.8	80.1	93.0	102.5	103.6
70°	65.0	70.6	83.2	91.3	92.4
72.5°	56.0	61.3	72.8	79.5	79.8
75°	47.0	52.4	62.4	67.8	67.8
77.5°	38.4	44.0	52.6	56.8	56.3
80°	30.5	35.6	43.1	45.4	45.4
82.5°	22.7	28.0	34.4	36.7	35.6
85°	16.0	21.6	27.4	28.6	27.7
87.5°	10.4	16.2	21.3	22.1	21.6
90°	6.7	12.0	16.8	17.4	17.1
92.5°	6.2	9.2	13.2	13.7	13.4
95°	5.9	7.3	10.6	11.2	10.9
97.5°	5.9	6.2	9.0	9.5	9.2
100°	5.6	5.3	7.6	8.1	7.8
102.5°	5.6	4.8	6.7	7.3	7.0
105°	5.0	4.2	5.9	6.7	6.4
107.5°	4.8	3.6	5.3	6.2	6.2
110°	4.2	3.1	4.8	5.9	5.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	2.8	4.5	5.6	5.6
115°	3.1	2.5	3.9	5.0	5.3
117.5°	2.5	2.0	3.4	4.8	5.0
120°	2.2	1.7	3.1	4.5	4.8
122.5°	2.0	1.4	2.8	3.9	4.5
125°	1.4	0.8	2.2	3.6	3.9
127.5°	1.4	0.8	2.0	3.1	3.6
130°	1.1	0.8	1.7	2.8	3.1
132.5°	0.8	0.6	1.1	2.2	2.8
135°	0.6	0.6	0.8	2.0	2.2
137.5°	0.6	0.3	0.6	1.7	2.0
140°	0.3	0.3	0.3	1.1	1.4
142.5°	0.3	0.3	0.0	0.8	1.1
145°	0.3	0.3	0.0	0.6	0.8
147.5°	0.3	0.3	0.0	0.3	0.6
150°	0.3	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)