



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: P397187

Luminaire Tested: **2VRVT2-LD5-3-DR100-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: P397187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-3-DR100-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: 861 lumens  
Efficiency: N/A  
Efficacy: 25.8 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

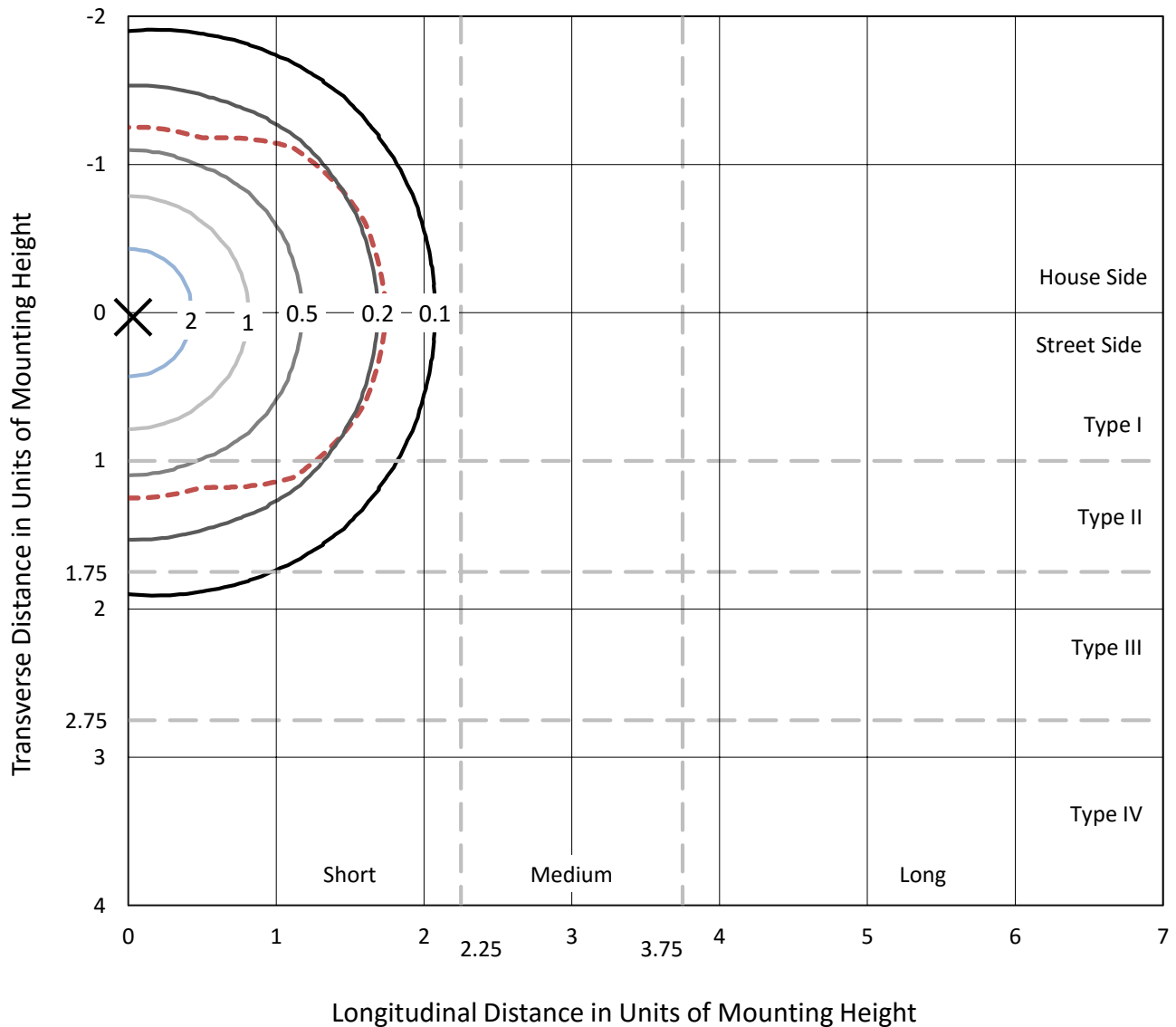


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



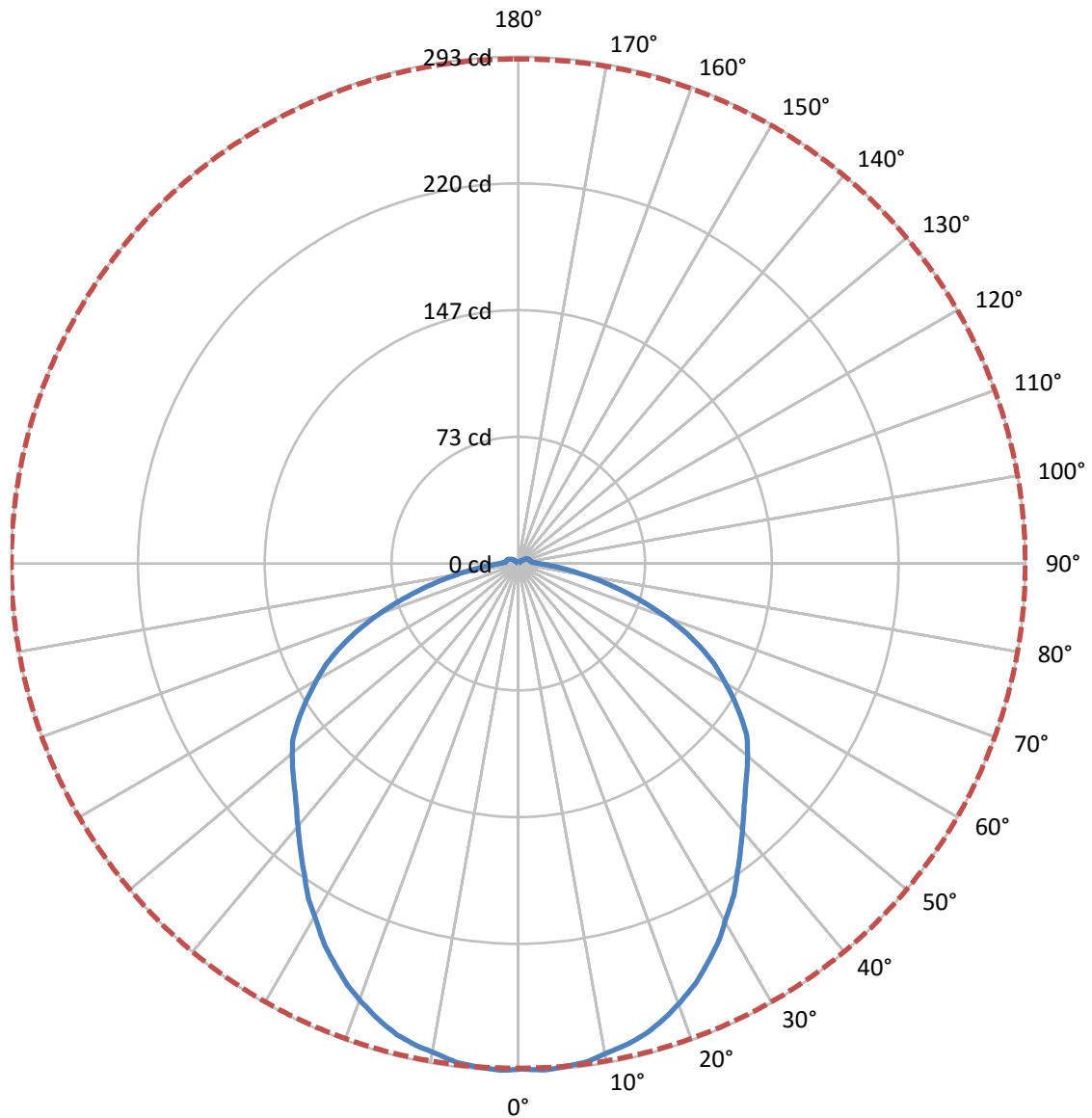
Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Cutoff



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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 2.5-Deg Vertical



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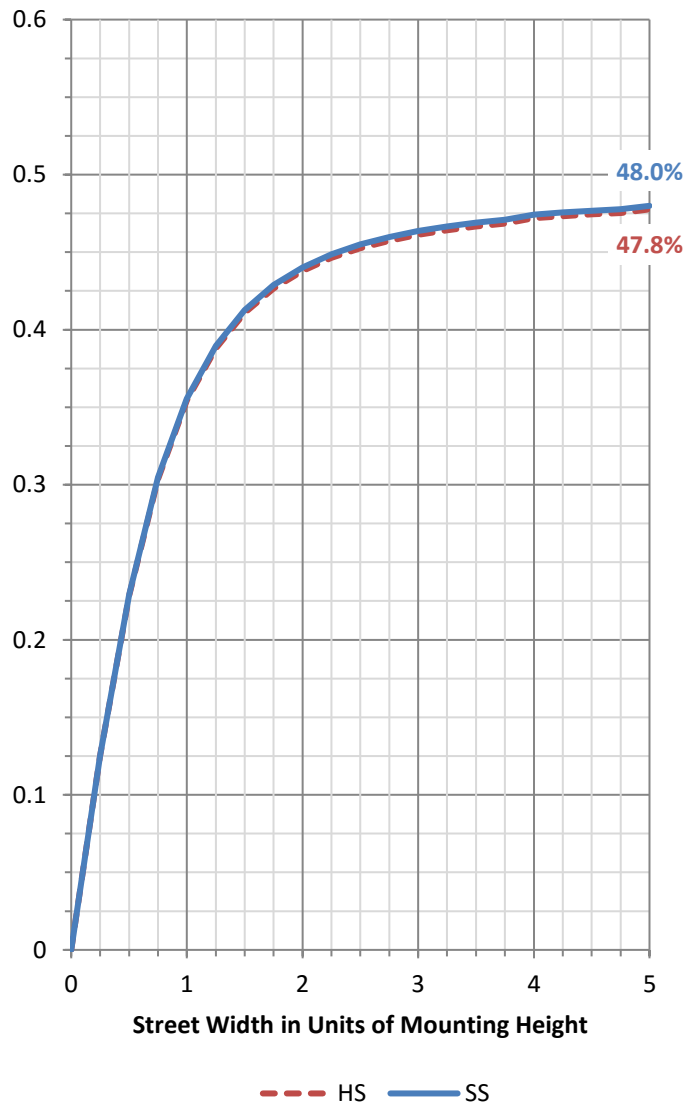
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	417.7	12.7	430.5
	% Fixture	48.5	1.5	50.0
<b>Street Side</b>	Lumens	417.7	12.7	430.5
	% Fixture	48.5	1.5	50.0
<b>Total</b>	Lumens	835.5	25.5	861.0
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.7	3.2
10°-20°	79.0	9.2
20°-30°	117.2	13.6
30°-40°	138.0	16.0
40°-50°	143.3	16.6
50°-60°	134.5	15.6
60°-70°	108.1	12.6
70°-80°	64.1	7.5
80°-90°	23.5	2.7
90°-100°	8.8	1.0
100°-110°	6.7	0.8
110°-120°	5.1	0.6
120°-130°	3.1	0.4
130°-140°	1.5	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	835.5	97.0
0°-180°	861.0	100.0





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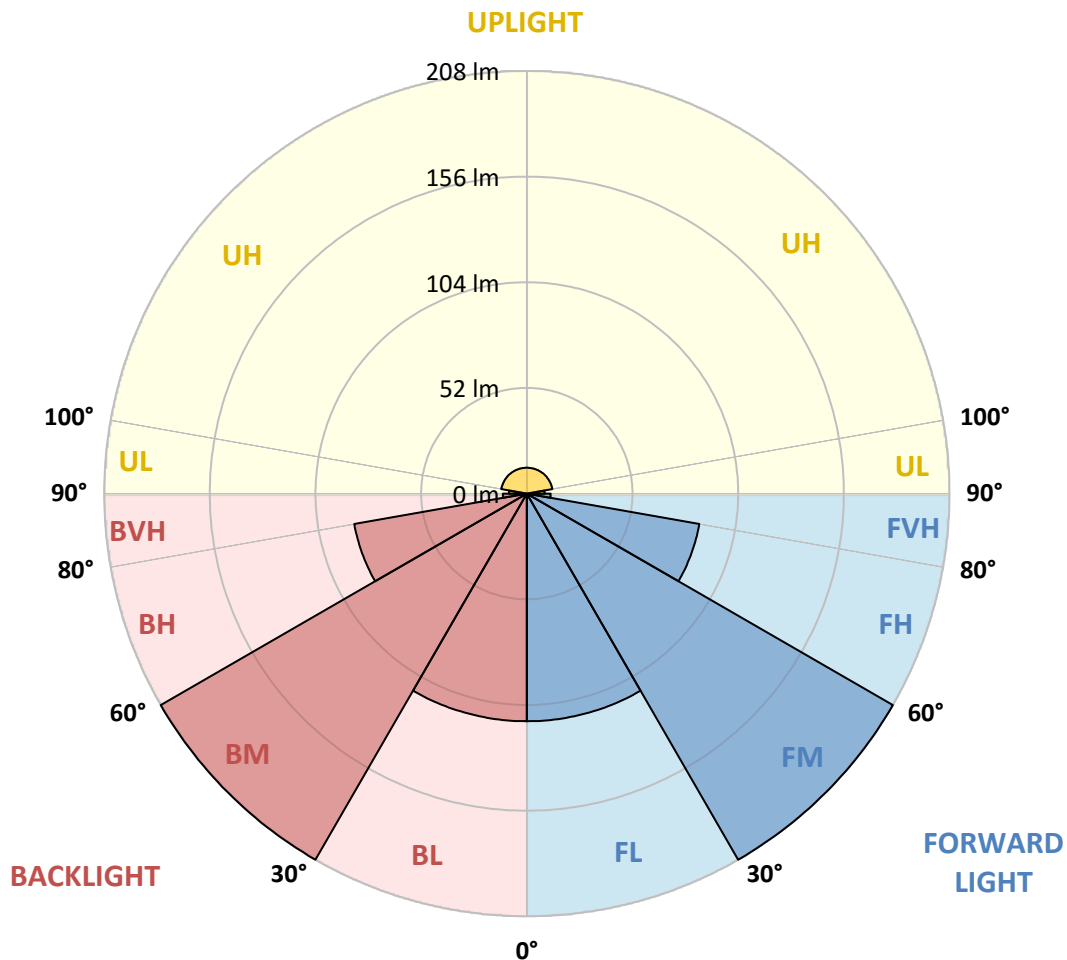
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.9	13.0			
FM (30°-60°)	207.9	24.1			
FH (60°-80°)	86.1	10.0			G0/660
FVH (80°-90°)	11.8	1.4			G1/100
BL (0°-30°)	111.9	13.0	B1/500		
BM (30°-60°)	207.9	24.1	B0/220		
BH (60°-80°)	86.1	10.0	B0/110		G0/660
BVH (80°-90°)	11.8	1.4			G1/100
UL (90°-100°)	8.8	1.0		U1/10	
UH (100°-180°)	12.7	1.5		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°	292.4	292.4	292.4	292.4	292.4
2.5°	291.8	292.4	293.2	293.2	293.2
5°	291.3	291.3	292.1	292.9	292.9
7.5°	288.5	289.0	290.7	290.7	291.0
10°	285.1	286.8	287.3	288.5	288.5
12.5°	282.9	283.4	284.8	285.4	285.4
15°	279.2	279.5	281.2	281.2	280.9
17.5°	273.3	274.2	275.9	275.9	275.0
20°	267.2	269.1	269.7	268.9	268.3
22.5°	261.8	262.4	263.2	261.8	261.0
25°	254.5	254.5	255.1	254.3	252.9
27.5°	245.3	247.3	247.0	246.4	245.3
30°	237.7	238.9	237.2	237.5	238.0
32.5°	229.3	229.9	228.8	229.3	229.9
35°	218.1	219.8	218.4	221.5	224.3
37.5°	208.3	209.5	208.9	215.1	217.9
40°	196.9	198.0	199.9	208.9	212.8
42.5°	185.9	186.2	191.5	203.0	206.1
45°	175.3	175.0	184.3	196.6	198.3
47.5°	163.0	163.8	178.1	188.7	189.6
50°	152.3	153.7	171.9	178.9	181.5
52.5°	141.1	143.4	165.5	170.8	175.0
55°	129.1	133.6	156.3	163.5	168.0
57.5°	119.3	124.9	146.5	155.1	158.5
60°	107.8	117.3	136.4	144.8	147.3
62.5°	97.5	110.1	126.9	132.5	132.7
65°	87.6	103.1	115.4	118.7	116.8
67.5°	77.8	95.2	102.8	103.1	101.1
70°	68.6	86.0	89.1	87.9	86.2
72.5°	59.6	75.3	75.0	73.6	73.1
75°	50.7	64.4	61.3	61.0	59.9
77.5°	41.4	52.9	49.0	48.7	47.9
80°	32.2	40.6	37.5	37.8	36.7
82.5°	23.2	30.8	28.0	28.3	27.2
85°	15.7	21.6	20.7	20.2	19.3
87.5°	9.2	15.1	15.1	14.8	13.7
90°	7.0	11.8	11.8	10.9	10.1
92.5°	6.7	9.5	9.5	8.7	7.8
95°	7.3	8.4	8.1	7.3	6.4
97.5°	7.6	7.8	7.6	6.4	5.9
100°	7.6	7.3	7.3	5.9	5.3
102.5°	7.3	7.0	7.0	5.9	5.0
105°	6.7	6.7	7.0	5.9	5.0
107.5°	6.2	6.4	6.7	5.9	5.0
110°	5.3	5.9	6.7	5.9	5.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.8	5.3	6.4	5.6	5.0
115°	3.9	4.5	6.2	5.6	5.0
117.5°	3.4	3.9	5.6	5.3	5.0
120°	2.8	3.1	5.3	5.3	4.8
122.5°	2.2	2.5	4.8	5.0	4.8
125°	1.7	2.0	3.9	4.5	4.5
127.5°	1.4	1.4	3.4	4.2	4.2
130°	1.1	1.1	2.8	3.9	3.9
132.5°	0.8	0.8	2.2	3.4	3.6
135°	0.8	0.6	2.0	2.8	3.1
137.5°	0.6	0.6	1.4	2.5	2.8
140°	0.6	0.6	1.1	2.0	2.2
142.5°	0.6	0.3	0.6	1.7	2.0
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)