



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: P397194

Luminaire Tested: **2VRVT2-LD5-3-FR50-UNV-LG52-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: P397194  
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-LG52-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: 2434.4 lumens  
Efficiency: N/A  
Efficacy: 46.9 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): 51.9  
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

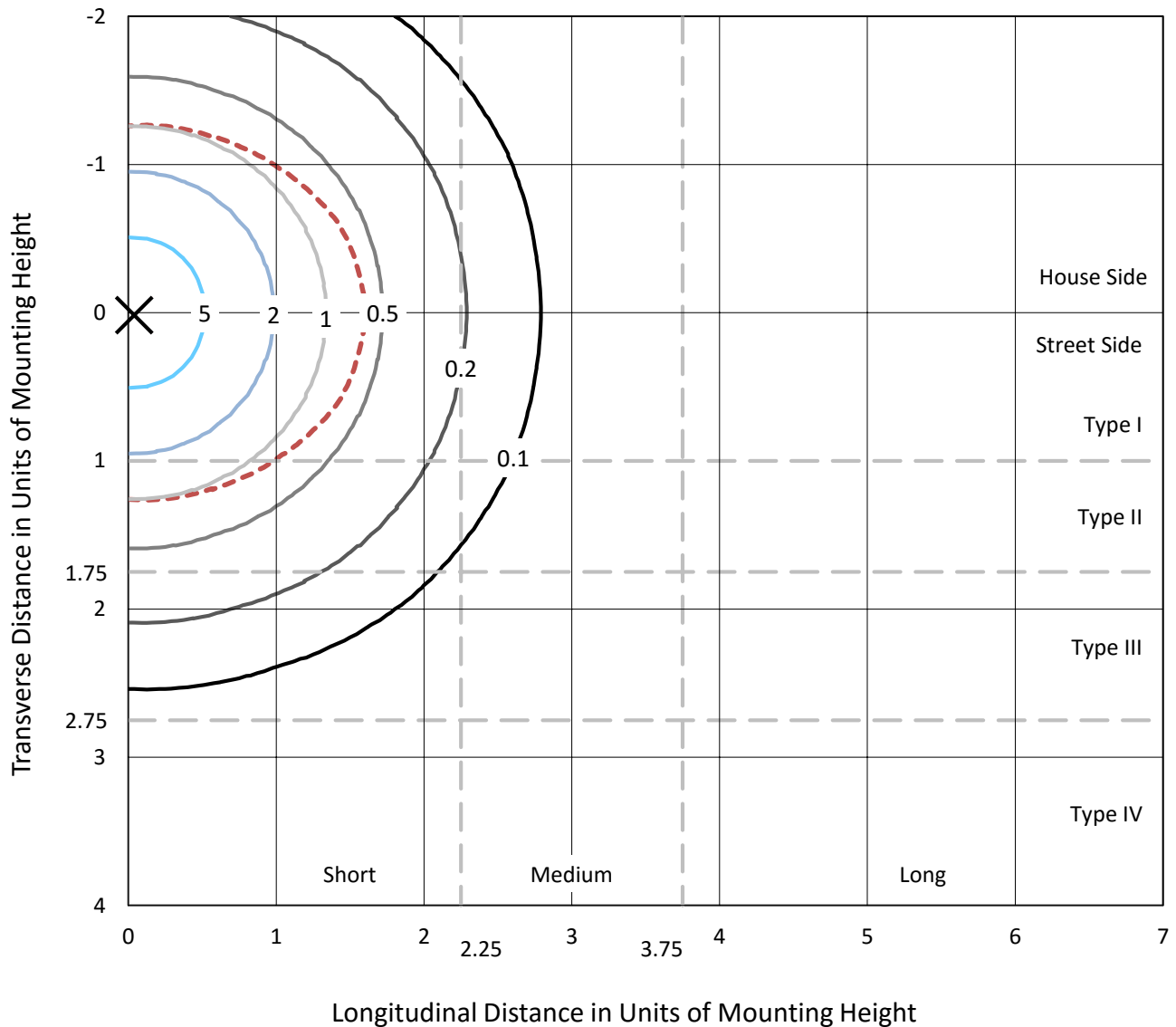


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



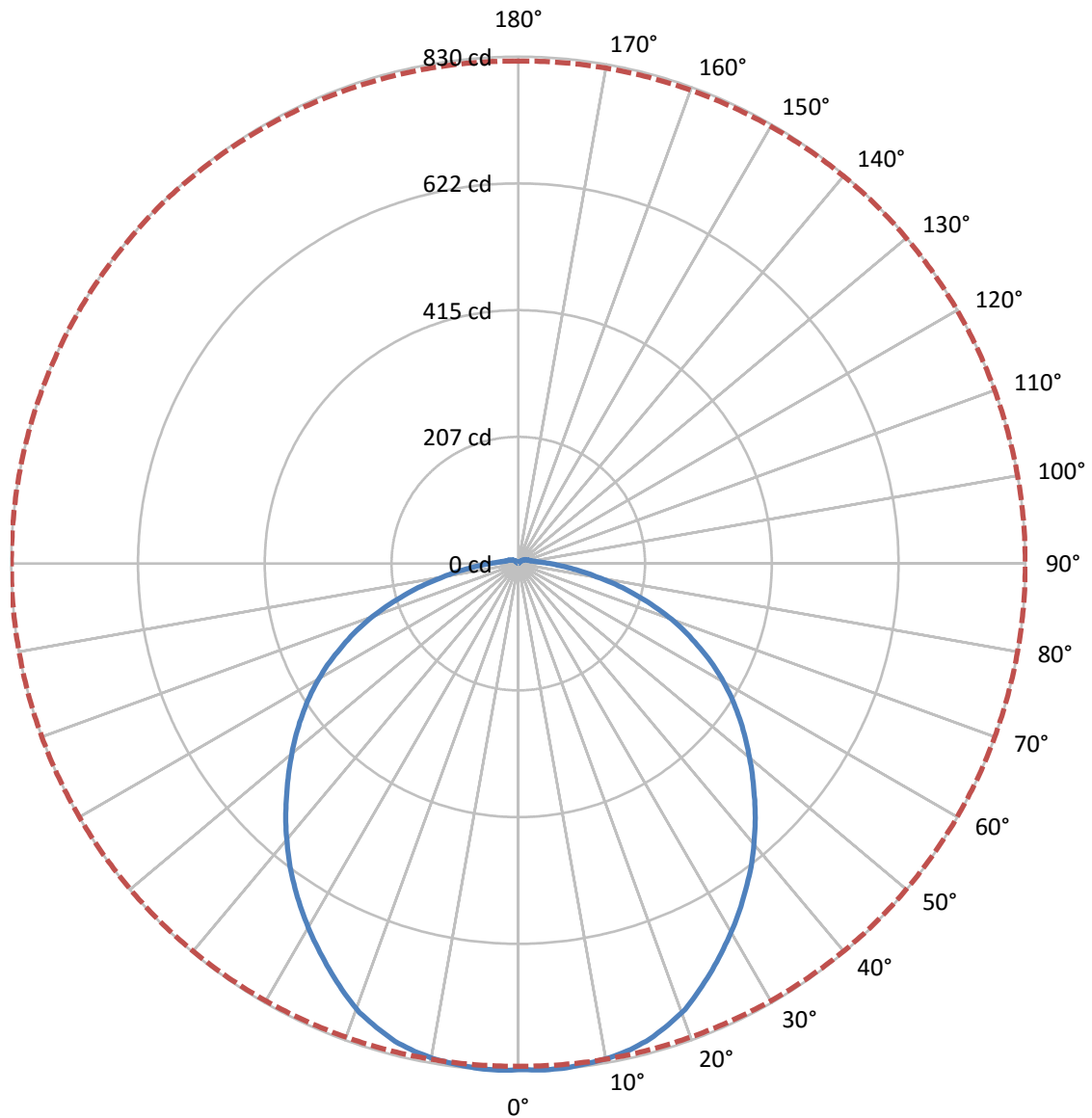
Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type V - Short - Cutoff



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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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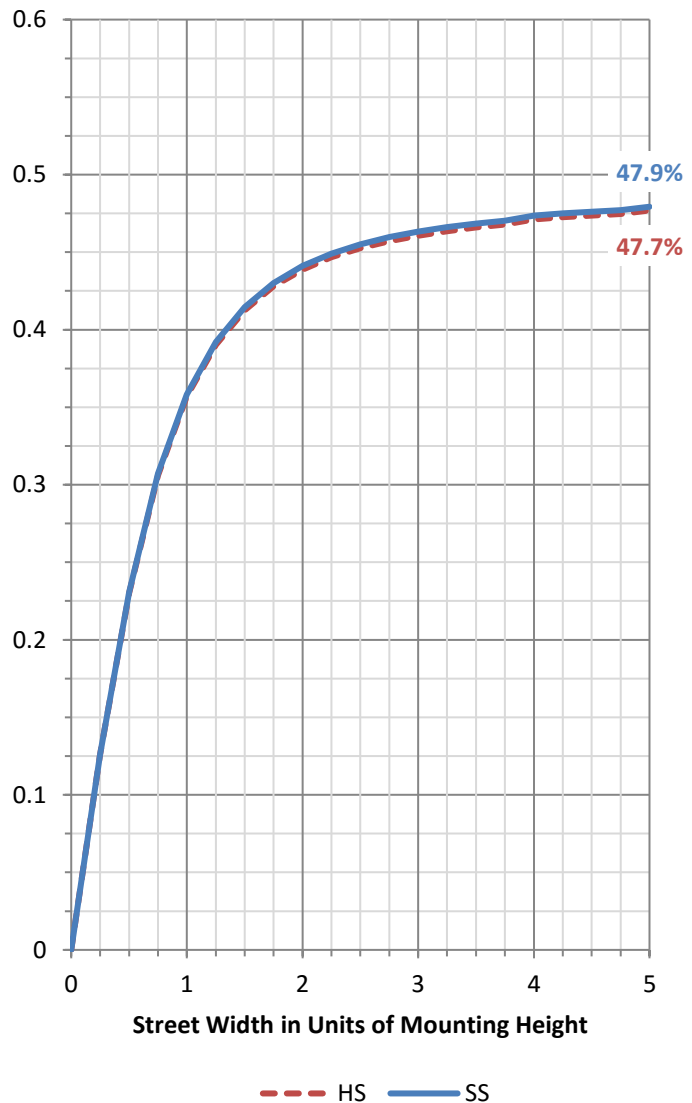
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1182.7	34.5	1217.2
	% Fixture	48.6	1.4	50.0
<b>Street Side</b>	Lumens	1182.7	34.5	1217.2
	% Fixture	48.6	1.4	50.0
<b>Total</b>	Lumens	2365.4	69.0	2434.4
	% Fixture	97.2	2.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	3.2
10°-20°	225.4	9.3
20°-30°	338.5	13.9
30°-40°	401.0	16.5
40°-50°	407.1	16.7
50°-60°	365.5	15.0
60°-70°	287.1	11.8
70°-80°	181.9	7.5
80°-90°	80.4	3.3
90°-100°	30.9	1.3
100°-110°	17.3	0.7
110°-120°	11.2	0.5
120°-130°	6.3	0.3
130°-140°	2.7	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2365.4	97.2
0°-180°	2434.4	100.0





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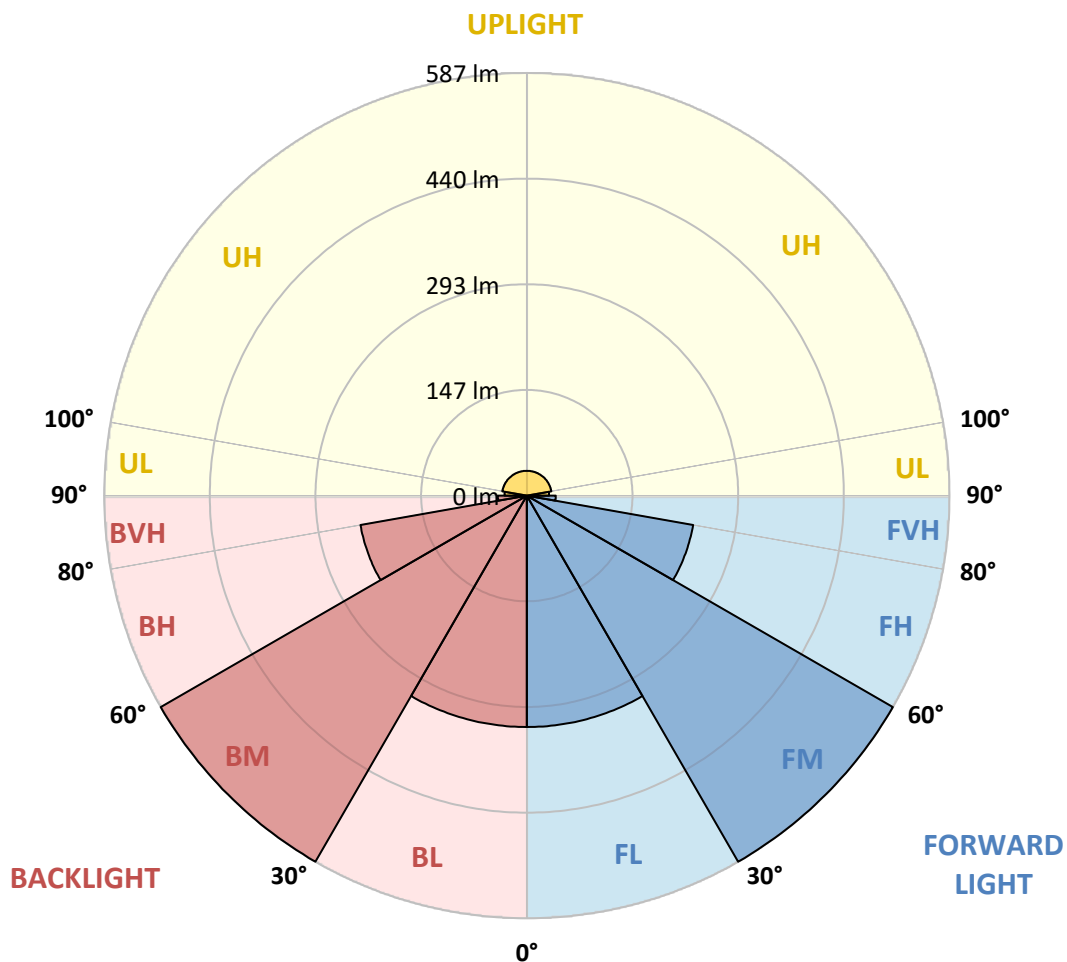
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.2	13.2			
FM (30°-60°)	586.8	24.1			
FH (60°-80°)	234.5	9.6			G0/660
FVH (80°-90°)	40.2	1.7			G1/100
BL (0°-30°)	321.2	13.2	B1/500		
BM (30°-60°)	586.8	24.1	B1/1000		
BH (60°-80°)	234.5	9.6	B1/500		G0/660
BVH (80°-90°)	40.2	1.7			G1/100
UL (90°-100°)	30.9	1.3		U2/50	
UH (100°-180°)	34.5	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°	828.0	828.0	828.0	828.0	828.0
2.5°	822.4	824.8	828.8	829.6	829.6
5°	820.0	823.2	826.4	828.8	828.8
7.5°	814.4	817.6	823.2	825.6	825.6
10°	807.2	811.2	817.6	822.4	823.2
12.5°	797.6	802.4	811.2	816.0	816.0
15°	785.6	792.0	802.4	807.2	806.4
17.5°	772.8	780.0	791.2	793.6	791.2
20°	757.6	766.4	777.6	779.2	776.0
22.5°	740.8	751.2	760.8	758.4	755.2
25°	720.8	733.6	740.8	736.8	734.4
27.5°	701.6	713.6	719.2	714.4	713.6
30°	678.4	692.0	695.2	692.0	691.2
32.5°	652.8	668.8	668.8	668.8	669.6
35°	627.2	640.8	642.4	644.8	647.2
37.5°	599.2	612.8	614.4	620.8	623.2
40°	566.4	581.6	584.8	594.4	597.6
42.5°	536.0	549.6	556.8	568.8	572.8
45°	501.6	516.8	527.2	541.6	548.0
47.5°	468.0	483.2	496.8	515.2	521.6
50°	434.4	449.6	467.2	488.8	497.6
52.5°	401.6	414.4	437.6	463.2	472.8
55°	365.6	381.6	408.8	436.8	446.4
57.5°	335.2	348.0	380.0	410.4	422.4
60°	300.8	315.2	352.0	382.4	390.4
62.5°	271.2	285.6	323.2	353.6	361.6
65°	241.6	255.2	295.2	322.4	329.6
67.5°	213.6	228.8	265.6	292.8	296.0
70°	185.6	201.6	237.6	260.8	264.0
72.5°	160.0	175.2	208.0	227.2	228.0
75°	134.4	149.6	178.4	193.6	193.6
77.5°	109.6	125.6	150.4	162.4	160.8
80°	87.2	101.6	123.2	129.6	129.6
82.5°	64.8	80.0	98.4	104.8	101.6
85°	45.6	61.6	78.4	81.6	79.2
87.5°	29.6	46.4	60.8	63.2	61.6
90°	19.2	34.4	48.0	49.6	48.8
92.5°	17.6	26.4	37.6	39.2	38.4
95°	16.8	20.8	30.4	32.0	31.2
97.5°	16.8	17.6	25.6	27.2	26.4
100°	16.0	15.2	21.6	23.2	22.4
102.5°	16.0	13.6	19.2	20.8	20.0
105°	14.4	12.0	16.8	19.2	18.4
107.5°	13.6	10.4	15.2	17.6	17.6
110°	12.0	8.8	13.6	16.8	16.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.4	8.0	12.8	16.0	16.0
115°	8.8	7.2	11.2	14.4	15.2
117.5°	7.2	5.6	9.6	13.6	14.4
120°	6.4	4.8	8.8	12.8	13.6
122.5°	5.6	4.0	8.0	11.2	12.8
125°	4.0	2.4	6.4	10.4	11.2
127.5°	4.0	2.4	5.6	8.8	10.4
130°	3.2	2.4	4.8	8.0	8.8
132.5°	2.4	1.6	3.2	6.4	8.0
135°	1.6	1.6	2.4	5.6	6.4
137.5°	1.6	0.8	1.6	4.8	5.6
140°	0.8	0.8	0.8	3.2	4.0
142.5°	0.8	0.8	0.0	2.4	3.2
145°	0.8	0.8	0.0	1.6	2.4
147.5°	0.8	0.8	0.0	0.8	1.6
150°	0.8	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)