



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: P397198

Luminaire Tested: **2VRVT2-LD5-4-DR-UNV-LR63-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: P397198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-4-DR-UNV-LR63-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: 652 lumens  
Efficiency: N/A  
Efficacy: 8.7 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: B0 - U2 - G0  
  
Input Watts (W): 74.9  
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

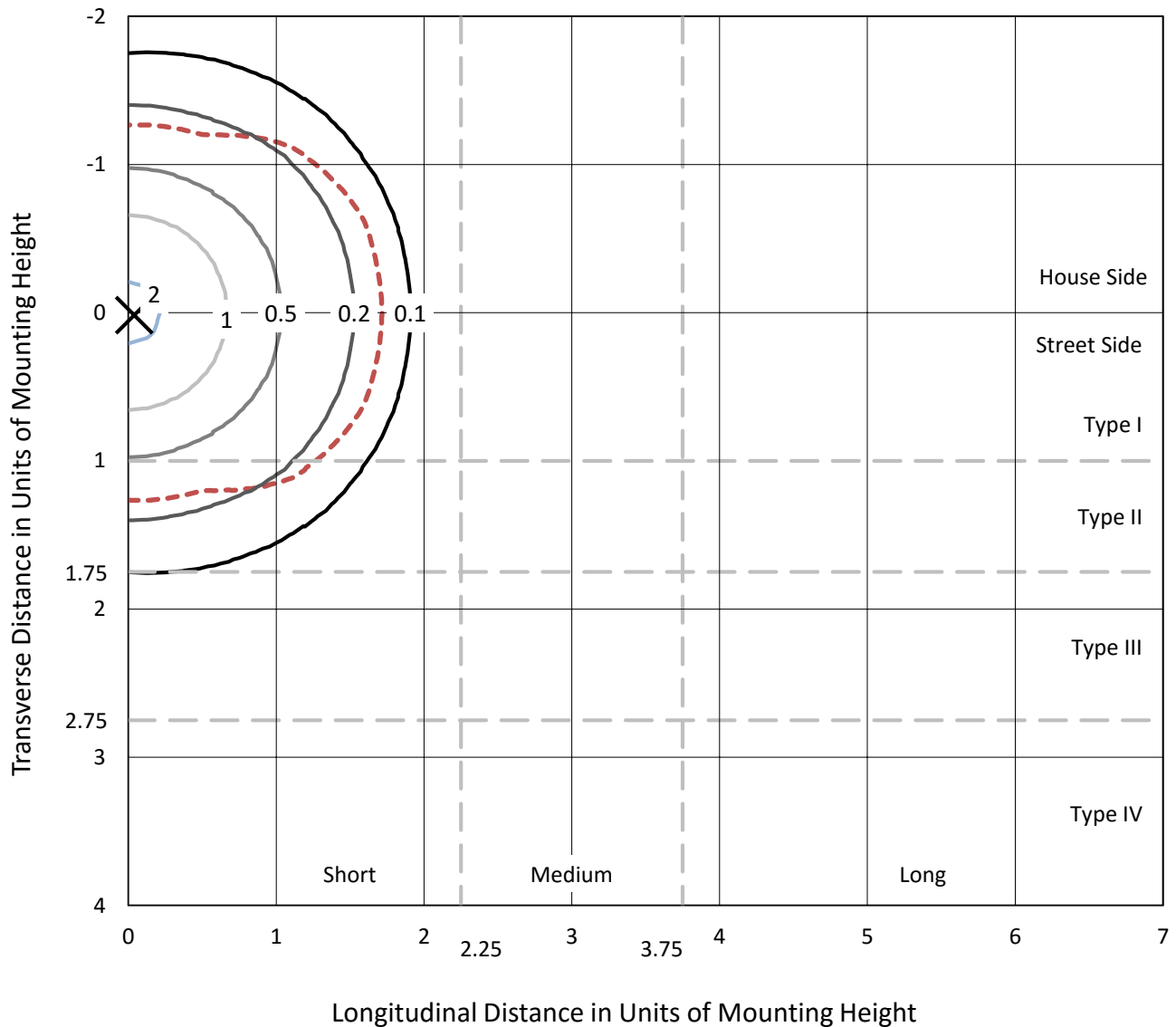


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



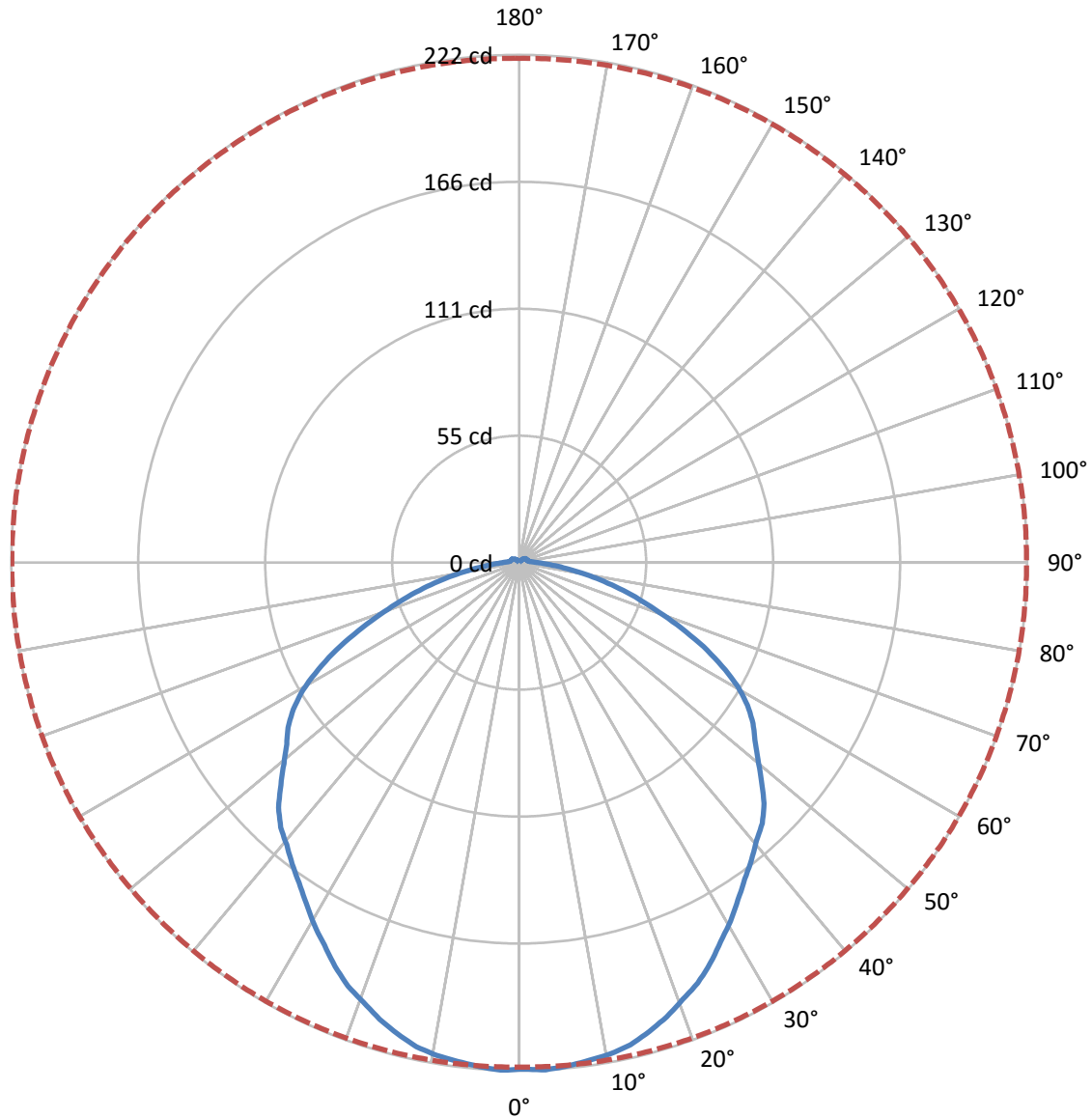
Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Cutoff



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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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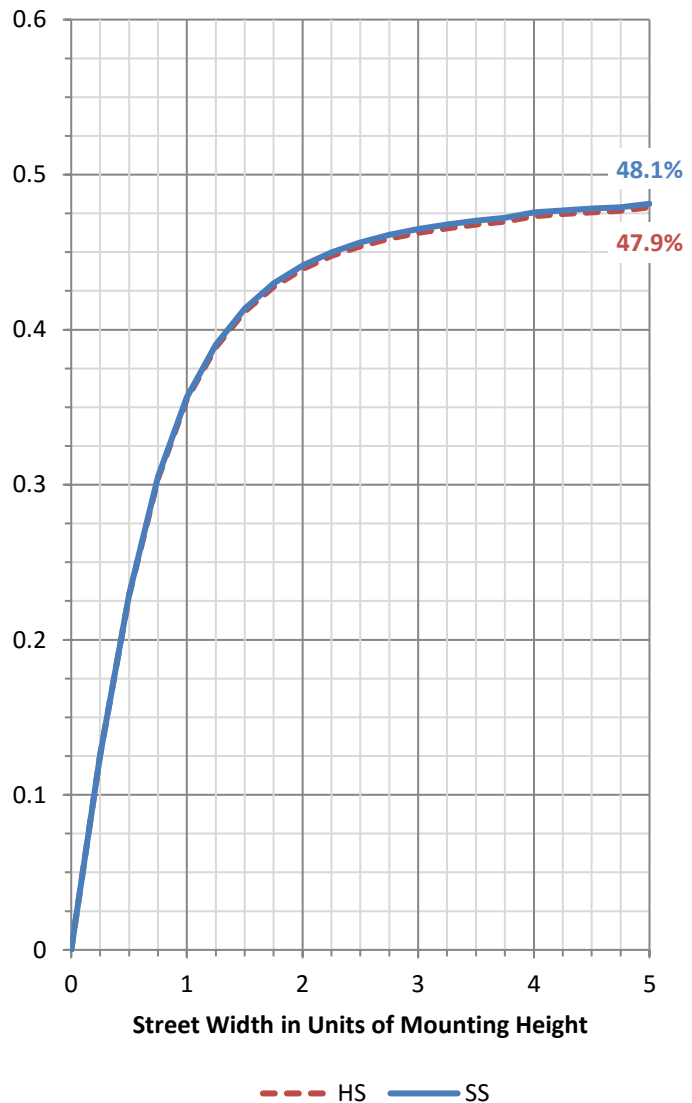
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	317.1	8.9	326.0
	% Fixture	48.6	1.4	50.0
<b>Street Side</b>	Lumens	317.1	8.9	326.0
	% Fixture	48.6	1.4	50.0
<b>Total</b>	Lumens	634.3	17.7	652.0
	% Fixture	97.3	2.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.9	3.2
10°-20°	59.6	9.1
20°-30°	89.0	13.6
30°-40°	105.3	16.1
40°-50°	109.3	16.8
50°-60°	102.4	15.7
60°-70°	82.0	12.6
70°-80°	48.4	7.4
80°-90°	17.4	2.7
90°-100°	6.3	1.0
100°-110°	4.6	0.7
110°-120°	3.5	0.5
120°-130°	2.1	0.3
130°-140°	1.0	0.2
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°	634.3	97.3
0°-180°	652.0	100.0





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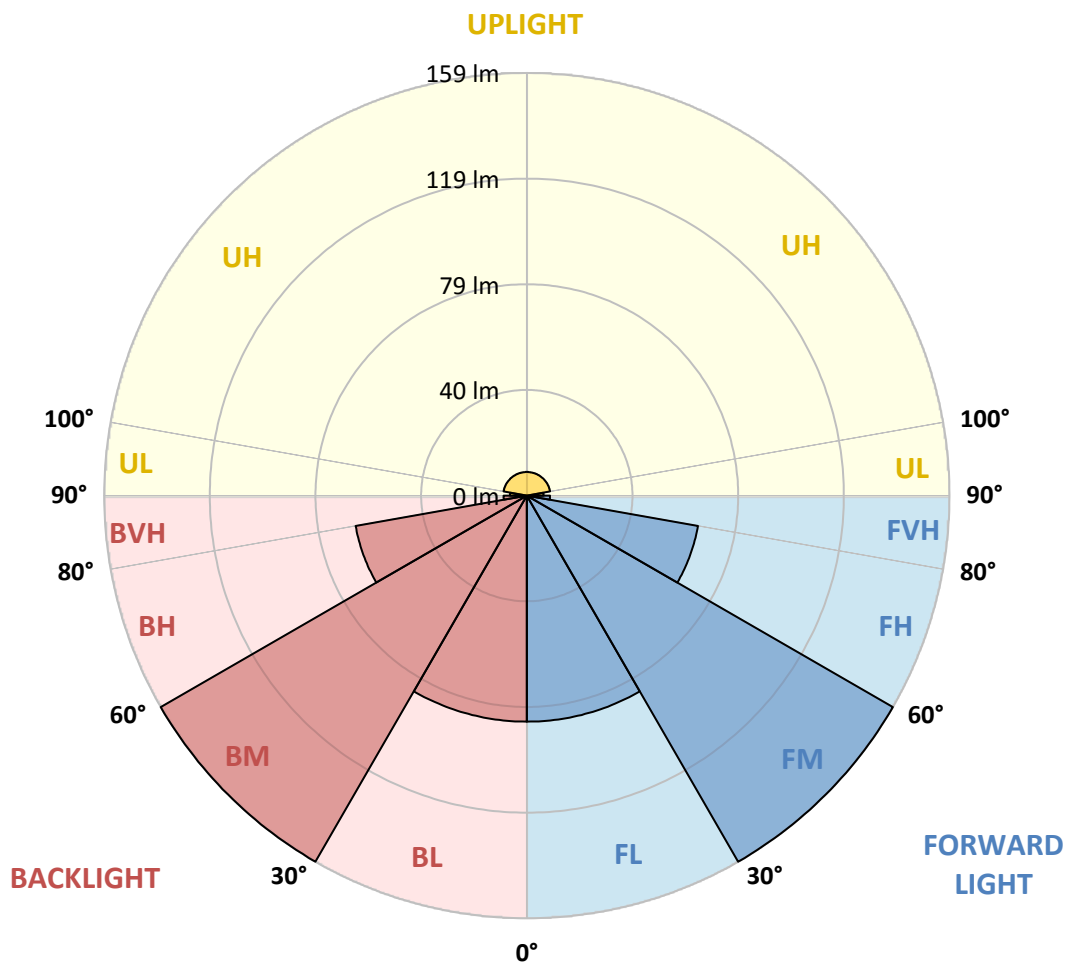
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.7	13.0			
FM	(30°-60°)	158.5	24.3			
FH	(60°-80°)	65.2	10.0			G0/660
FVH	(80°-90°)	8.7	1.3			G0/10
BL	(0°-30°)	84.7	13.0	B0/110		
BM	(30°-60°)	158.5	24.3	B0/220		
BH	(60°-80°)	65.2	10.0	B0/110		G0/660
BVH	(80°-90°)	8.7	1.3			G0/10
UL	(90°-100°)	6.3	1.0		U1/10	
UH	(100°-180°)	8.9	1.4		U1/10	

**BUG Rating: B0-U2-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	221.3	221.3	221.3	221.3	221.3
2.5°	220.4	221.1	221.5	221.9	221.7
5°	219.8	220.0	220.2	220.9	220.4
7.5°	218.3	218.3	219.0	219.6	219.0
10°	215.8	216.0	217.3	218.3	217.5
12.5°	213.5	213.7	214.3	216.2	214.7
15°	210.3	210.3	211.8	212.6	211.6
17.5°	206.9	206.9	208.4	208.6	207.6
20°	201.9	202.3	204.4	203.8	203.3
22.5°	197.0	197.6	199.3	199.6	199.1
25°	191.7	193.0	193.4	193.9	193.4
27.5°	185.4	187.1	187.7	187.5	187.7
30°	179.7	180.8	181.6	181.8	181.8
32.5°	172.8	173.8	174.7	175.5	176.1
35°	165.8	166.6	167.3	169.8	171.5
37.5°	158.0	159.3	160.5	164.8	166.6
40°	149.6	150.8	152.9	159.7	162.6
42.5°	141.5	142.6	146.8	155.7	157.4
45°	133.3	134.2	141.5	150.0	150.4
47.5°	124.5	125.7	135.9	142.4	143.0
50°	116.0	117.9	131.4	135.2	136.7
52.5°	108.0	110.1	126.1	128.9	132.7
55°	99.6	102.5	119.0	124.0	127.6
57.5°	91.3	96.4	110.8	117.7	119.0
60°	82.9	90.5	103.2	109.7	109.9
62.5°	75.3	85.0	95.8	99.4	98.9
65°	67.5	79.7	87.1	88.6	87.1
67.5°	59.9	74.0	77.6	76.4	75.9
70°	53.2	66.7	67.5	64.8	64.1
72.5°	45.6	58.2	55.9	54.8	54.2
75°	39.0	49.8	46.0	45.1	44.7
77.5°	32.1	40.7	35.9	36.3	36.3
80°	24.9	31.6	27.4	27.8	27.2
82.5°	18.1	23.2	20.9	20.7	20.0
85°	11.8	16.2	15.0	14.6	13.9
87.5°	7.2	11.4	11.0	10.5	10.1
90°	5.3	8.7	8.2	7.6	7.4
92.5°	5.3	7.2	6.8	6.1	5.7
95°	5.5	6.1	5.7	4.8	4.6
97.5°	5.9	5.7	5.1	4.4	4.0
100°	5.9	5.3	4.8	4.0	3.6
102.5°	5.7	5.1	4.6	3.8	3.4
105°	5.5	4.8	4.6	3.8	3.2
107.5°	4.8	4.6	4.6	3.6	3.2
110°	4.4	4.2	4.4	3.6	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	4.4	3.6	3.2
115°	3.2	3.4	4.2	3.6	3.2
117.5°	2.7	2.7	3.8	3.4	3.2
120°	2.1	2.3	3.6	3.4	3.0
122.5°	1.7	1.9	3.2	3.2	3.0
125°	1.5	1.5	2.7	3.0	3.0
127.5°	1.1	1.1	2.3	2.7	2.7
130°	0.8	0.8	2.1	2.5	2.5
132.5°	0.8	0.6	1.7	2.3	2.3
135°	0.6	0.4	1.3	1.9	2.1
137.5°	0.4	0.4	1.1	1.7	1.9
140°	0.4	0.4	0.6	1.3	1.5
142.5°	0.4	0.2	0.4	1.1	1.3
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)