



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: P397175

Luminaire Tested: **2VRVT2-LD5-2-DR100-W-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: P397175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-2-DR100-W-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**

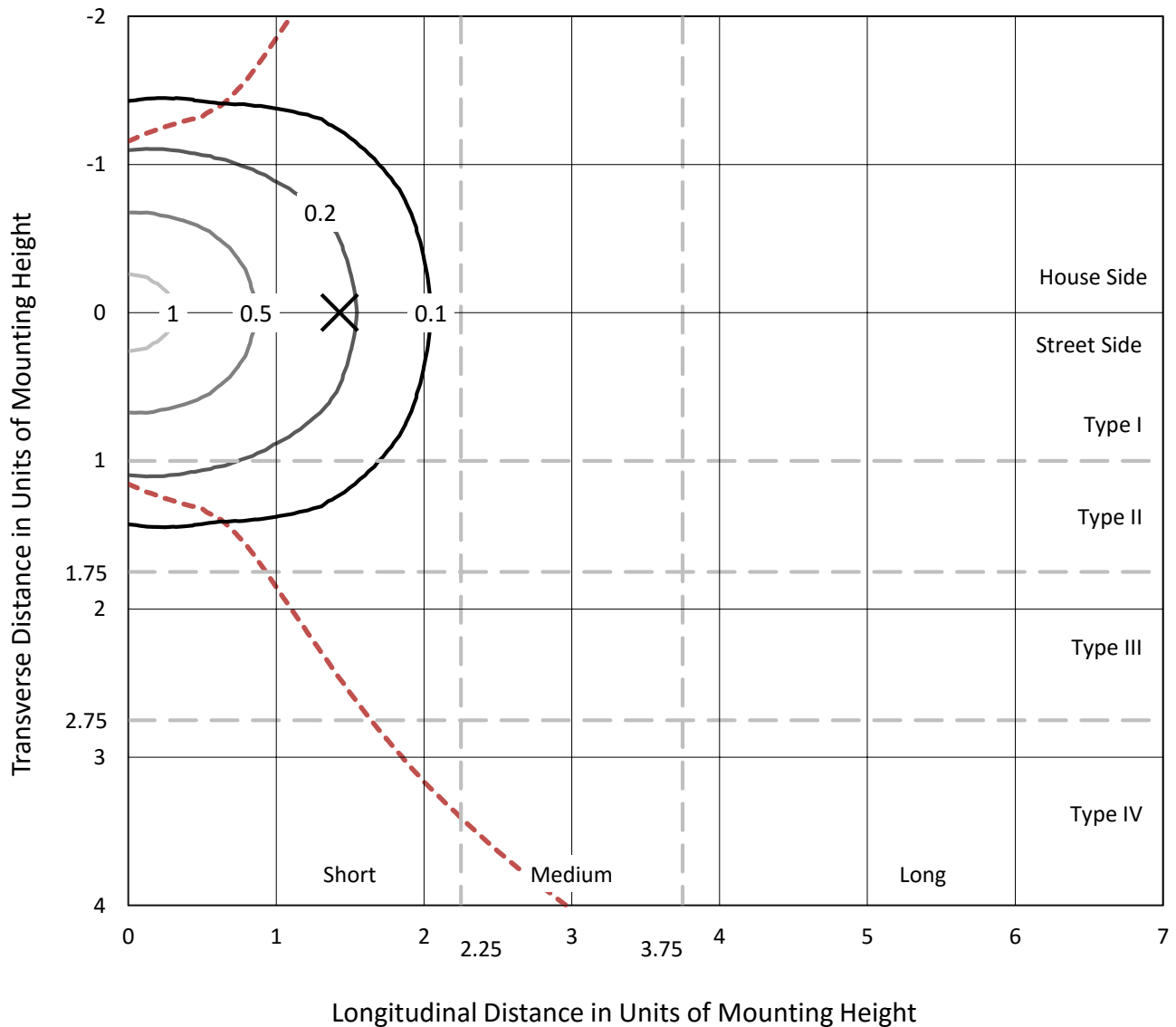
Lumens per Lamp: N/A  
Luminaire Lumens: 581.9 lumens  
Efficiency: N/A  
Efficacy: 21.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B0 - U2 - G1  
  
Input Watts (W): 26.6  
Input Voltage (V): NR  
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

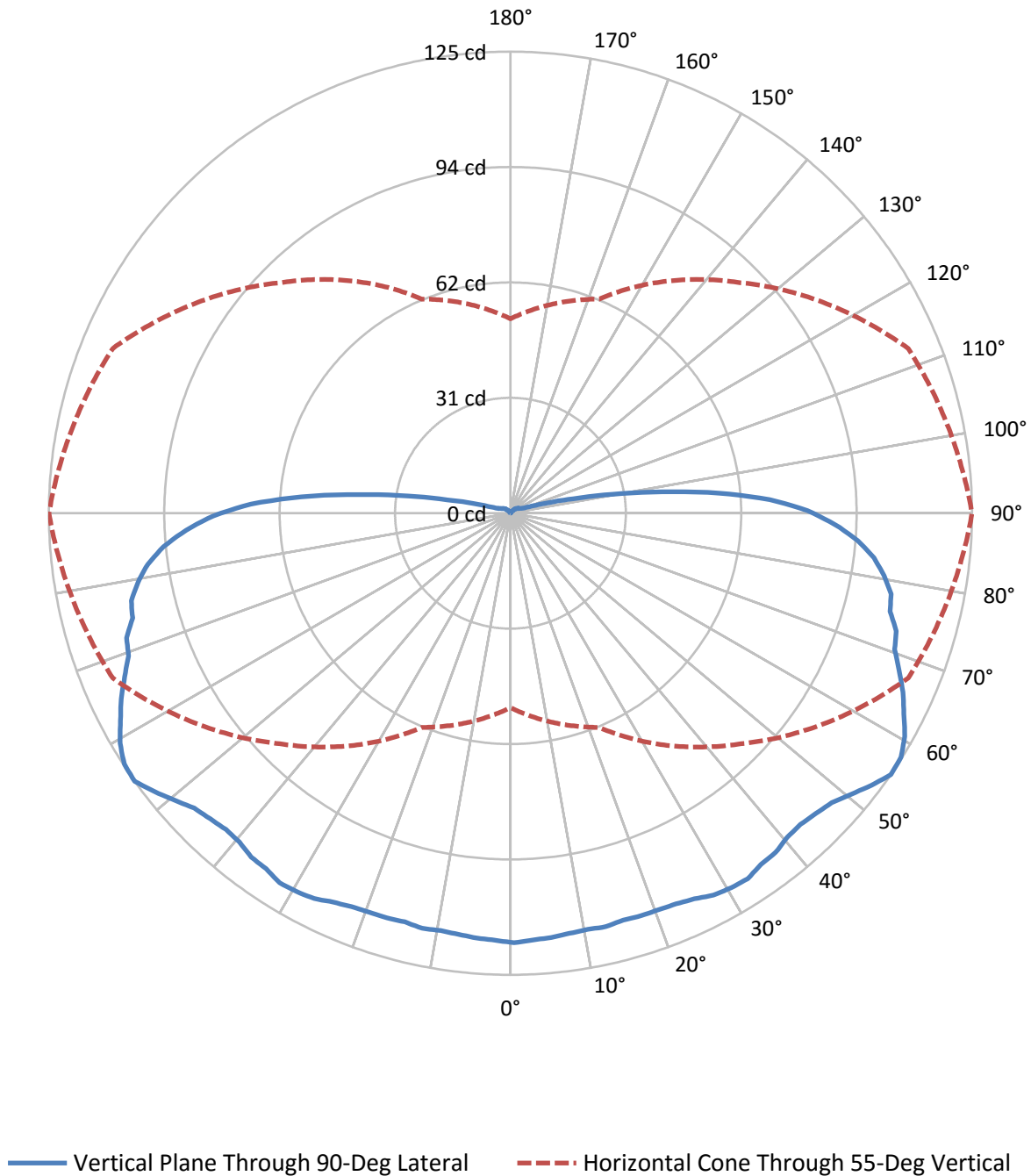


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - Non-Cutoff



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### Luminous Intensity Polar Plot





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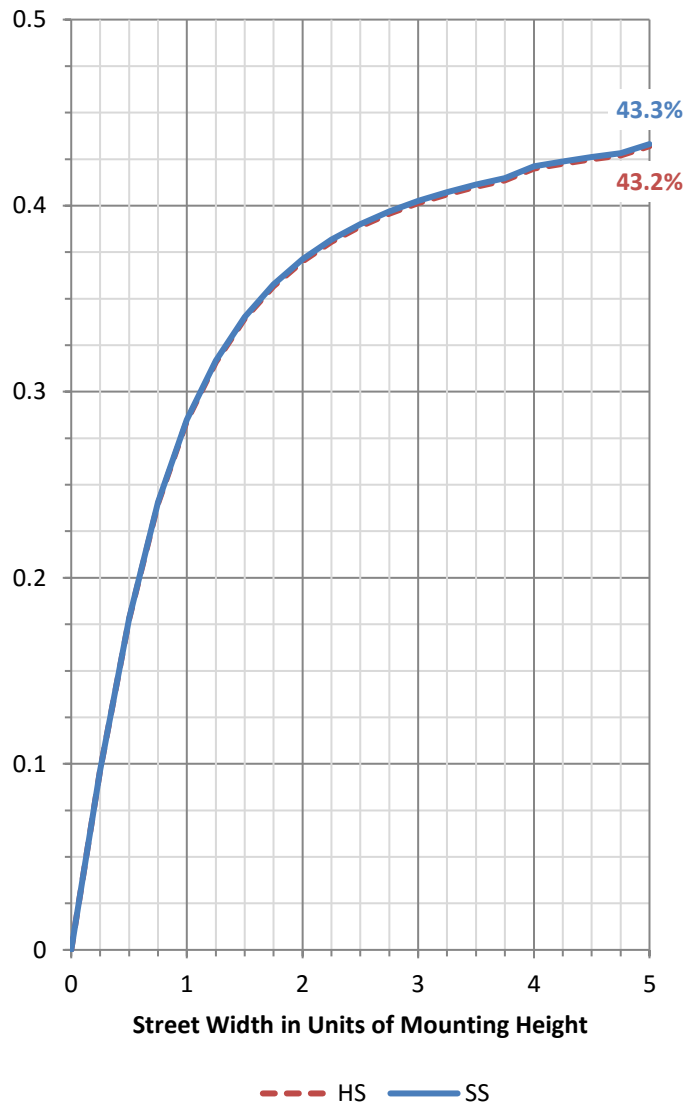
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	265.3	25.6	290.9
	% Fixture	45.6	4.4	50.0
<b>Street Side</b>	Lumens	265.3	25.6	290.9
	% Fixture	45.6	4.4	50.0
<b>Total</b>	Lumens	530.7	51.2	581.9
	% Fixture	91.2	8.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.0	1.9
10°-20°	31.8	5.5
20°-30°	49.9	8.6
30°-40°	63.8	11.0
40°-50°	72.3	12.4
50°-60°	79.7	13.7
60°-70°	82.6	14.2
70°-80°	77.1	13.2
80°-90°	62.4	10.7
90°-100°	35.4	6.1
100°-110°	9.8	1.7
110°-120°	3.4	0.6
120°-130°	1.8	0.3
130°-140°	0.7	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	530.7	91.2
0°-180°	581.9	100.0





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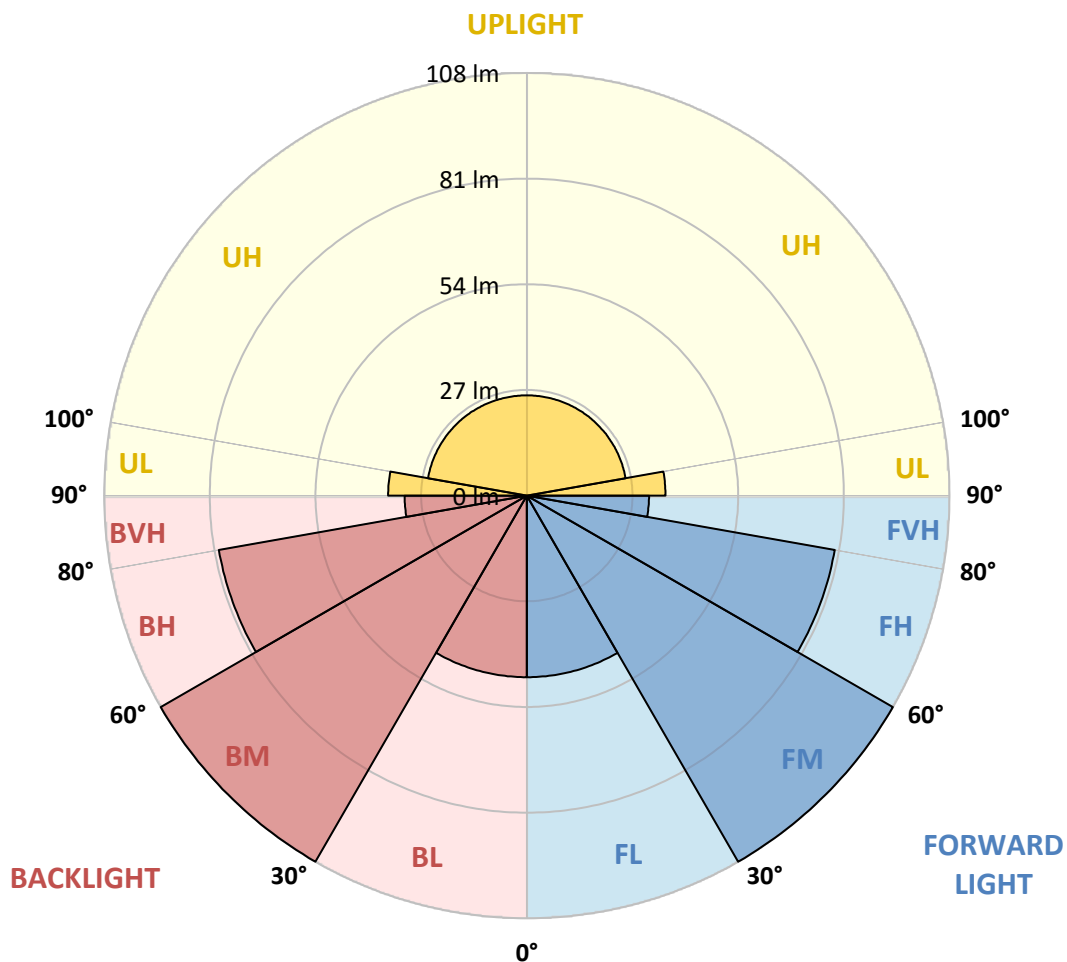
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	46.4	8.0			
FM (30°-60°)	107.9	18.5			
FH (60°-80°)	79.8	13.7			G0/660
FVH (80°-90°)	31.2	5.4			G1/100
BL (0°-30°)	46.4	8.0	B0/110		
BM (30°-60°)	107.9	18.5	B0/220		
BH (60°-80°)	79.8	13.7	B0/110		G0/660
BVH (80°-90°)	31.2	5.4			G1/100
UL (90°-100°)	35.4	6.1		U2/50	
UH (100°-180°)	25.6	4.4		U2/50	

**BUG Rating: B0-U2-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	116.2	116.2	116.2	116.2	116.2
2.5°	116.5	116.5	116.2	115.9	115.6
5°	115.3	115.6	115.9	115.6	115.3
7.5°	114.5	115.1	115.1	115.3	114.8
10°	113.4	113.9	114.2	114.8	114.5
12.5°	112.0	112.5	113.4	114.2	114.8
15°	110.0	111.1	112.5	114.2	114.2
17.5°	108.1	109.2	112.3	113.9	114.5
20°	105.5	107.2	110.9	113.7	114.5
22.5°	102.7	105.0	109.2	113.7	114.8
25°	99.9	102.5	107.8	113.9	115.6
27.5°	97.1	99.7	106.4	113.7	117.0
30°	93.5	97.1	105.3	113.7	117.6
32.5°	89.6	94.1	104.1	113.7	117.9
35°	85.4	90.7	102.5	113.4	116.7
37.5°	81.5	87.3	100.8	112.0	116.5
40°	77.6	84.0	98.5	110.9	115.3
42.5°	73.4	80.6	96.6	109.5	115.1
45°	69.2	77.3	94.1	109.5	115.9
47.5°	65.0	73.6	91.5	110.0	117.0
50°	61.0	70.0	89.9	111.1	119.5
52.5°	56.6	66.4	88.7	113.9	122.3
55°	52.6	62.7	88.2	116.5	124.9
57.5°	48.2	59.4	89.0	118.1	124.6
60°	44.0	55.7	91.0	117.6	122.6
62.5°	40.0	52.9	92.9	115.9	119.5
65°	36.1	50.7	94.6	112.8	116.7
67.5°	31.9	49.0	94.1	109.5	113.4
70°	28.3	48.4	91.0	105.5	110.3
72.5°	24.6	48.4	86.5	101.9	109.2
75°	21.6	48.2	80.9	99.7	106.1
77.5°	17.9	47.0	75.0	97.1	105.3
80°	14.8	43.7	69.7	93.2	102.5
82.5°	12.0	39.2	64.4	89.6	99.1
85°	9.2	34.2	59.4	85.4	94.3
87.5°	7.0	29.4	53.8	78.7	87.9
90°	5.6	25.5	48.2	71.7	80.4
92.5°	5.3	21.3	41.2	61.9	70.3
95°	5.0	17.1	32.8	49.8	56.8
97.5°	4.8	13.2	24.4	36.4	41.4
100°	4.5	10.1	17.9	24.9	28.0
102.5°	4.2	7.8	12.9	16.2	17.4
105°	3.6	6.2	9.2	10.4	10.6
107.5°	3.4	4.8	7.0	6.7	6.4
110°	3.1	4.2	5.6	4.8	4.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	3.4	4.8	3.9	3.4
115°	2.2	2.8	4.2	3.6	3.1
117.5°	1.7	2.5	3.9	3.4	2.8
120°	1.4	2.0	3.4	3.1	2.5
122.5°	1.1	1.7	3.1	2.8	2.5
125°	0.8	1.1	2.5	2.5	2.2
127.5°	0.8	0.8	2.2	2.2	2.0
130°	0.6	0.6	1.7	2.0	2.0
132.5°	0.6	0.3	1.4	1.7	1.7
135°	0.3	0.3	1.1	1.4	1.4
137.5°	0.3	0.3	0.6	1.1	1.1
140°	0.3	0.0	0.3	0.8	0.8
142.5°	0.3	0.0	0.0	0.6	0.3
145°	0.3	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)