



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: P397189

Luminaire Tested: **2VRVT2-LD5-3-DR100-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: P397189  
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-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: 492 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 - U1 - G0  
  
Input Watts (W): 56.5  
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

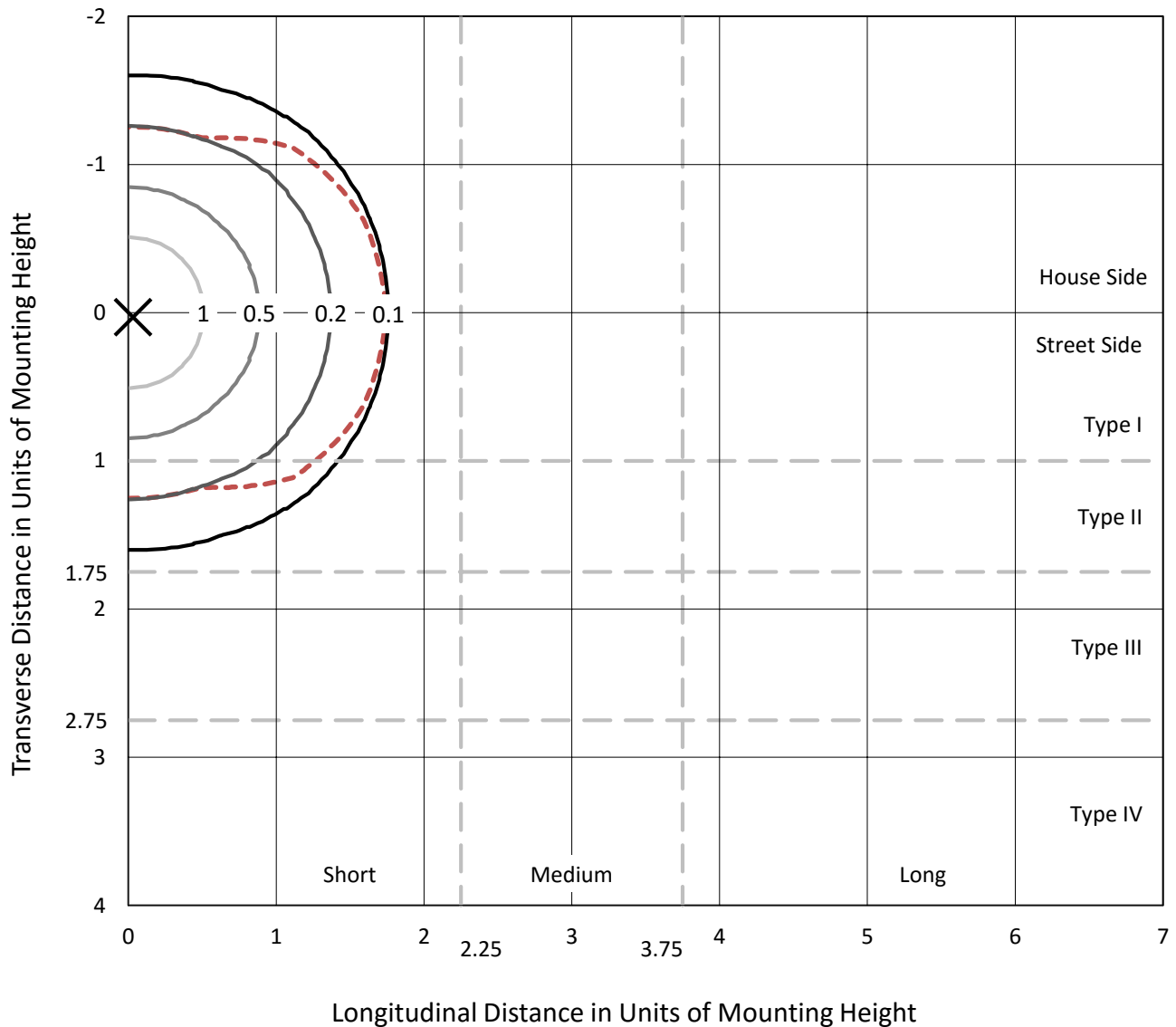


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



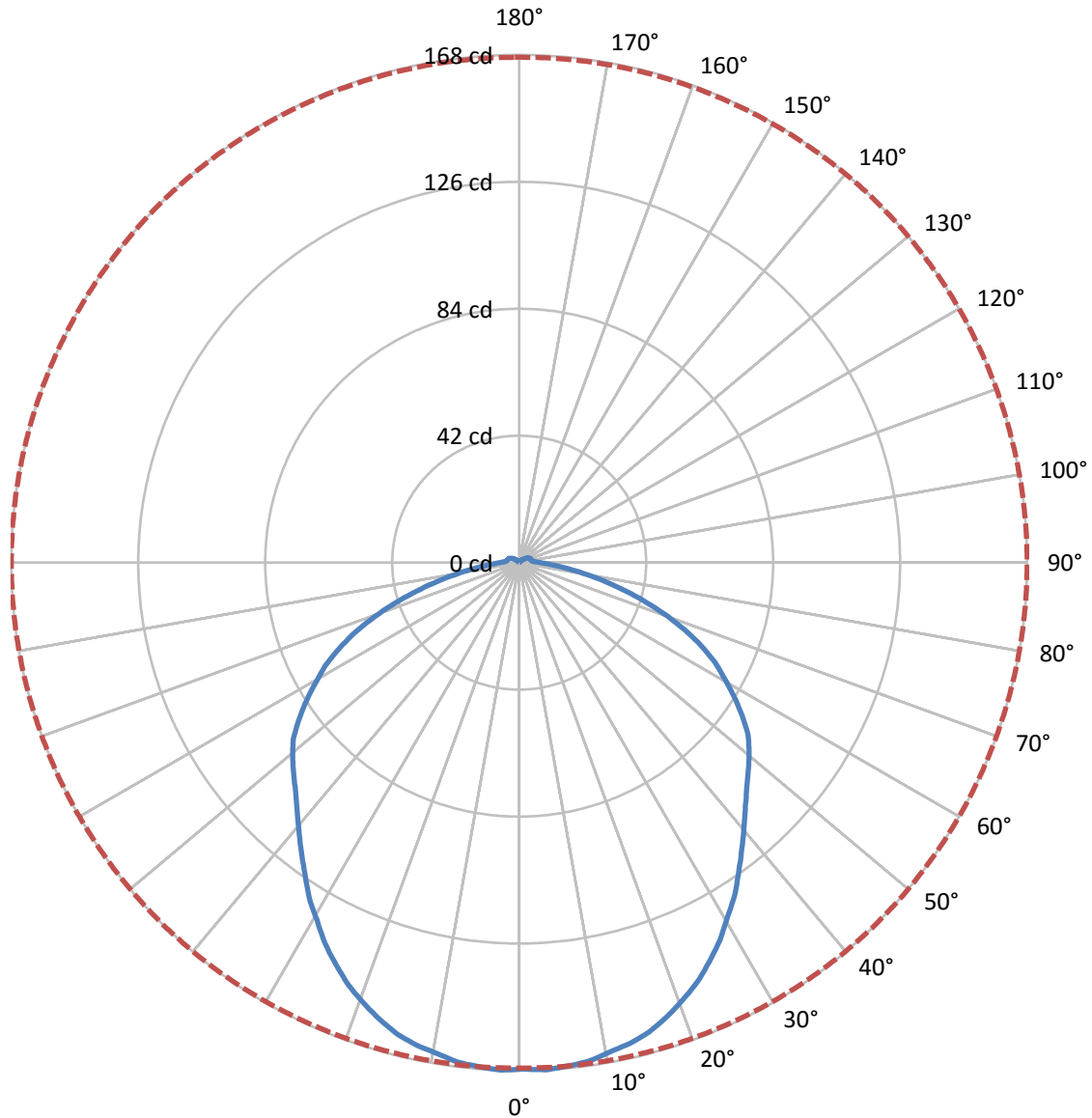
Based on 10 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Cutoff



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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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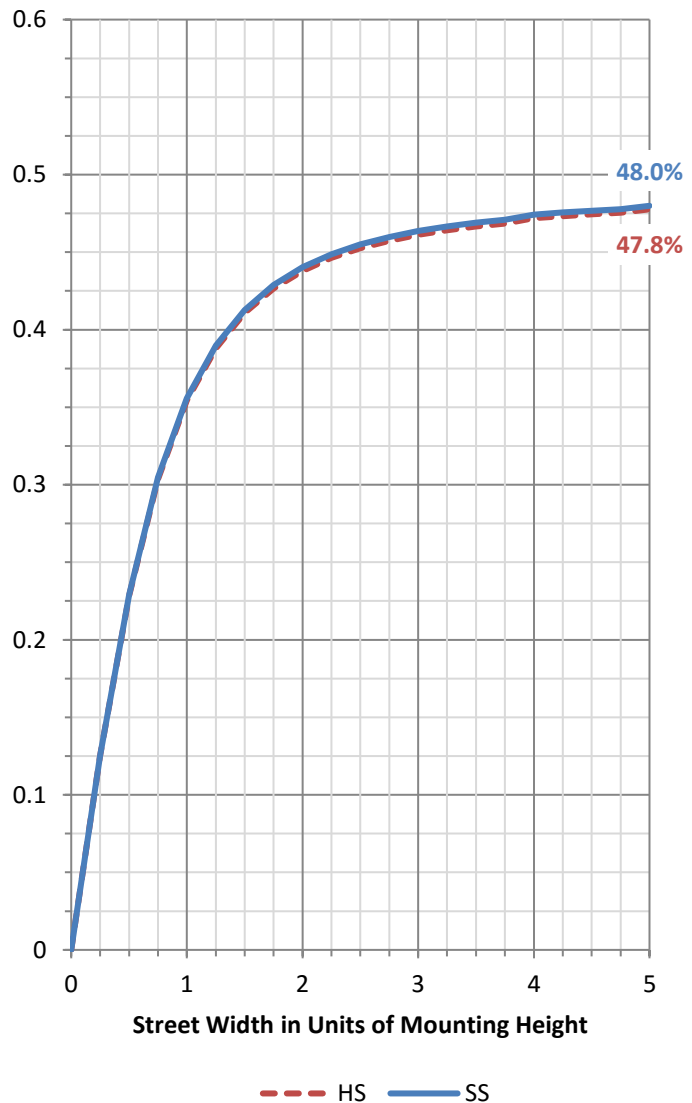
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	238.7	7.3	246.0
	% Fixture	48.5	1.5	50.0
<b>Street Side</b>	Lumens	238.7	7.3	246.0
	% Fixture	48.5	1.5	50.0
<b>Total</b>	Lumens	477.4	14.5	492.0
	% Fixture	97.0	3.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.8	3.2
10°-20°	45.1	9.2
20°-30°	67.0	13.6
30°-40°	78.9	16.0
40°-50°	81.9	16.6
50°-60°	76.9	15.6
60°-70°	61.8	12.6
70°-80°	36.7	7.5
80°-90°	13.4	2.7
90°-100°	5.0	1.0
100°-110°	3.8	0.8
110°-120°	2.9	0.6
120°-130°	1.8	0.4
130°-140°	0.8	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°	477.4	97.0
0°-180°	492.0	100.0





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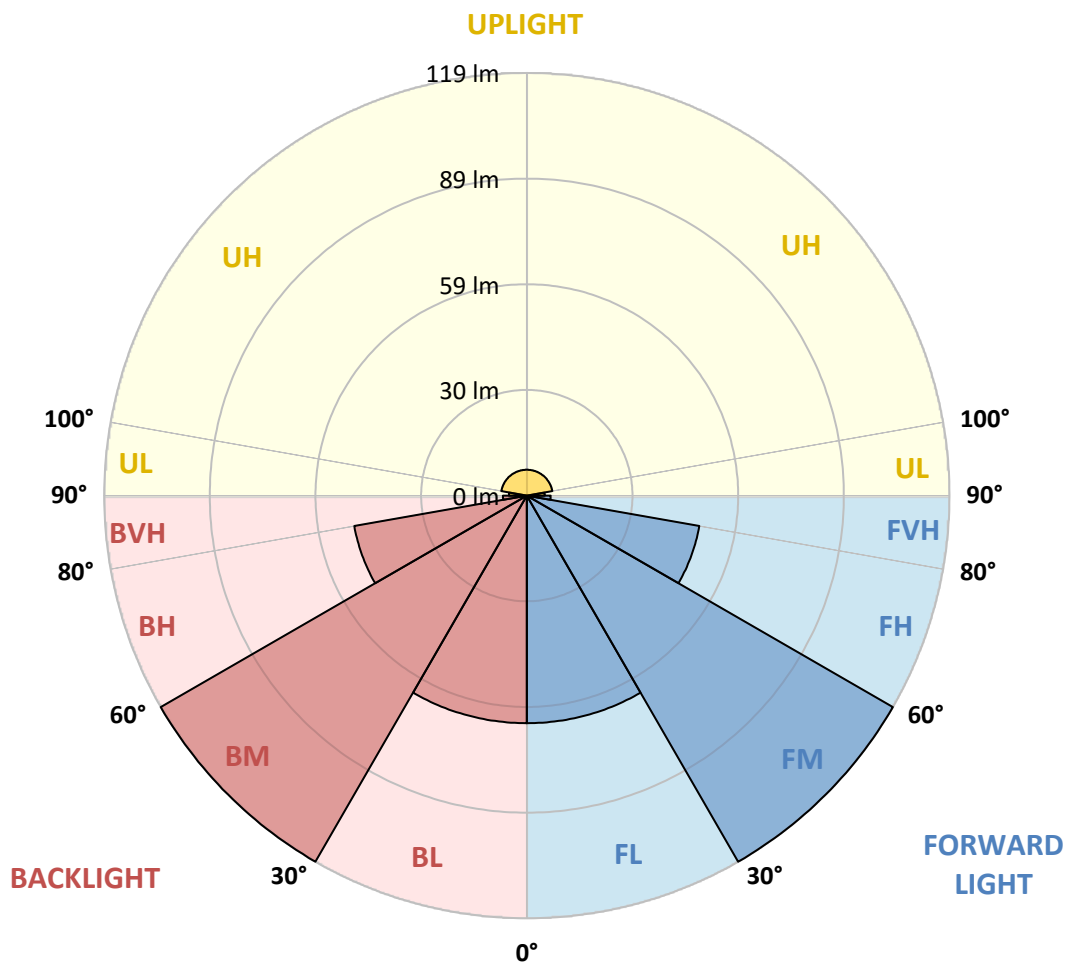
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.0	13.0			
FM (30°-60°)	118.8	24.2			
FH (60°-80°)	49.2	10.0			G0/660
FVH (80°-90°)	6.7	1.4			G0/10
BL (0°-30°)	64.0	13.0	B0/110		
BM (30°-60°)	118.8	24.2	B0/220		
BH (60°-80°)	49.2	10.0	B0/110		G0/660
BVH (80°-90°)	6.7	1.4			G0/10
UL (90°-100°)	5.0	1.0		U1/10	
UH (100°-180°)	7.3	1.5		U1/10	

**BUG Rating: B0-U1-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	167.1	167.1	167.1	167.1	167.1
2.5°	166.8	167.1	167.6	167.6	167.6
5°	166.4	166.4	166.9	167.4	167.4
7.5°	164.8	165.2	166.1	166.1	166.3
10°	162.9	163.9	164.2	164.8	164.8
12.5°	161.6	162.0	162.8	163.1	163.1
15°	159.6	159.7	160.7	160.7	160.5
17.5°	156.2	156.7	157.6	157.6	157.2
20°	152.7	153.8	154.1	153.6	153.3
22.5°	149.6	149.9	150.4	149.6	149.1
25°	145.5	145.5	145.8	145.3	144.5
27.5°	140.2	141.3	141.1	140.8	140.2
30°	135.9	136.5	135.5	135.7	136.0
32.5°	131.1	131.4	130.7	131.1	131.4
35°	124.7	125.6	124.8	126.6	128.2
37.5°	119.1	119.7	119.4	122.9	124.5
40°	112.5	113.1	114.3	119.4	121.6
42.5°	106.3	106.4	109.5	116.0	117.8
45°	100.2	100.0	105.3	112.3	113.3
47.5°	93.1	93.6	101.8	107.9	108.3
50°	87.1	87.9	98.3	102.3	103.7
52.5°	80.7	81.9	94.6	97.6	100.0
55°	73.8	76.3	89.3	93.5	96.0
57.5°	68.2	71.4	83.7	88.7	90.6
60°	61.6	67.1	77.9	82.7	84.2
62.5°	55.7	62.9	72.5	75.7	75.9
65°	50.1	58.9	65.9	67.9	66.7
67.5°	44.5	54.4	58.7	58.9	57.8
70°	39.2	49.1	50.9	50.2	49.3
72.5°	34.1	43.0	42.9	42.1	41.8
75°	29.0	36.8	35.0	34.9	34.2
77.5°	23.7	30.2	28.0	27.8	27.4
80°	18.4	23.2	21.4	21.6	21.0
82.5°	13.3	17.6	16.0	16.2	15.5
85°	9.0	12.3	11.8	11.5	11.0
87.5°	5.3	8.6	8.6	8.5	7.8
90°	4.0	6.7	6.7	6.2	5.8
92.5°	3.8	5.4	5.4	5.0	4.5
95°	4.2	4.8	4.6	4.2	3.7
97.5°	4.3	4.5	4.3	3.7	3.4
100°	4.3	4.2	4.2	3.4	3.0
102.5°	4.2	4.0	4.0	3.4	2.9
105°	3.8	3.8	4.0	3.4	2.9
107.5°	3.5	3.7	3.8	3.4	2.9
110°	3.0	3.4	3.8	3.4	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	3.0	3.7	3.2	2.9
115°	2.2	2.6	3.5	3.2	2.9
117.5°	1.9	2.2	3.2	3.0	2.9
120°	1.6	1.8	3.0	3.0	2.7
122.5°	1.3	1.4	2.7	2.9	2.7
125°	1.0	1.1	2.2	2.6	2.6
127.5°	0.8	0.8	1.9	2.4	2.4
130°	0.6	0.6	1.6	2.2	2.2
132.5°	0.5	0.5	1.3	1.9	2.1
135°	0.5	0.3	1.1	1.6	1.8
137.5°	0.3	0.3	0.8	1.4	1.6
140°	0.3	0.3	0.6	1.1	1.3
142.5°	0.3	0.2	0.3	1.0	1.1
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)