

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
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P397361

Luminaire Tested: **8VRVT2-LD5-9-FR50-UNV-LA59-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-9-FR50-UNV-LA59-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2510.2 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

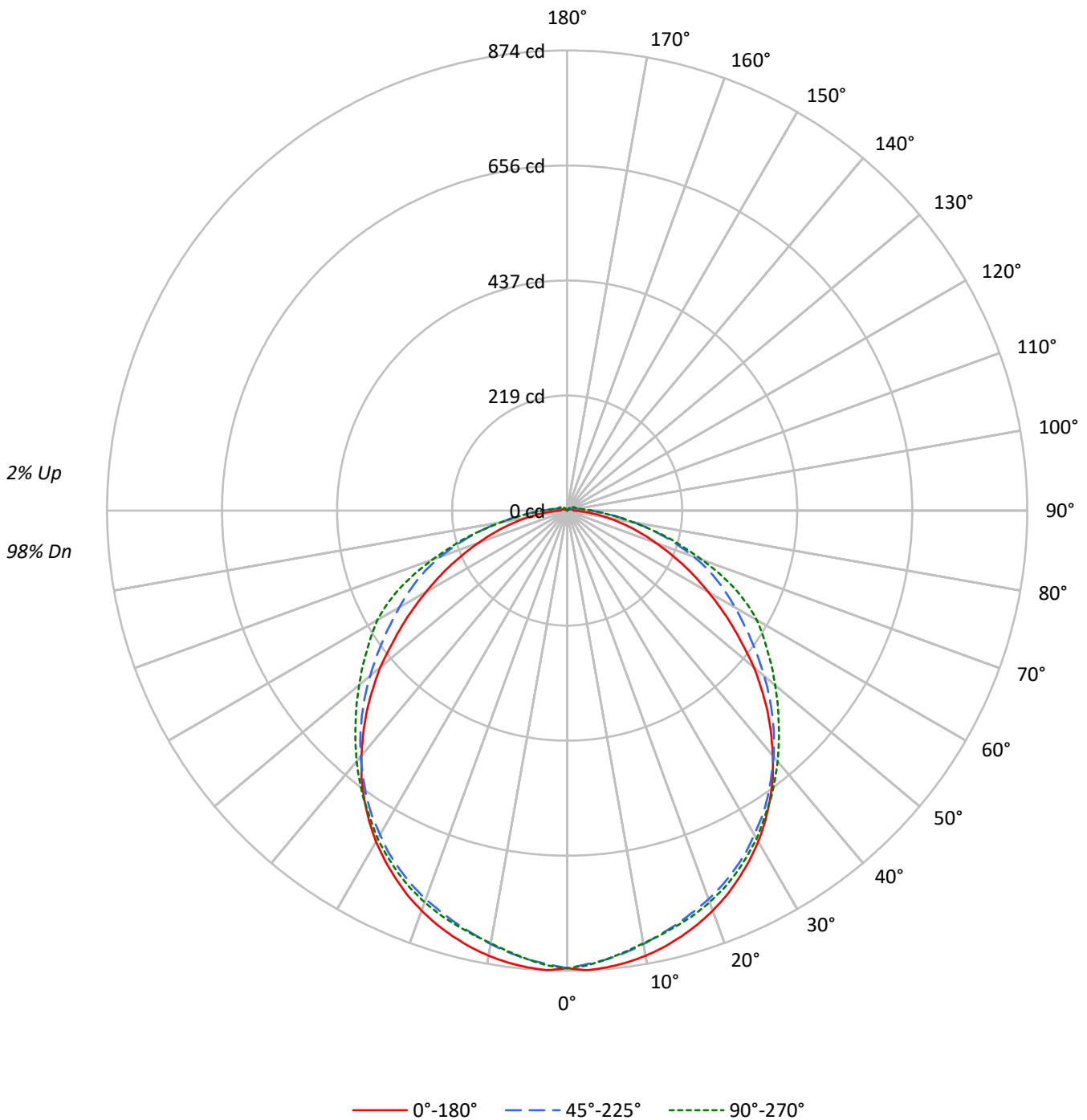
Input Watts (W): 100.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2246	2246	2246
5°	2254	2172	2156
10°	2244	2101	2068
15°	2228	2035	2001
20°	2207	1979	1941
25°	2178	1921	1874
30°	2141	1852	1800
35°	2088	1783	1720
40°	2015	1701	1639
45°	1927	1612	1557
50°	1818	1513	1482
55°	1680	1414	1417
60°	1547	1328	1364
65°	1417	1254	1254
70°	1277	1145	1071
75°	1163	987	881
80°	1033	790	653
85°	926	600	464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.2
10°-20°	231.4	9.2
20°-30°	349.2	13.9
30°-40°	416.7	16.6
40°-50°	424.9	16.9
50°-60°	380.4	15.2
60°-70°	300.7	12.0
70°-80°	186.0	7.4
80°-90°	78.3	3.1
90°-100°	27.9	1.1
100°-110°	14.8	0.6
110°-120°	9.7	0.4
120°-130°	5.6	0.2
130°-140°	2.5	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	662.2	26.4
0°-40°	1078.9	43.0
0°-60°	1884.2	75.1
0°-90°	2449.3	97.6
90°-120°	52.4	2.1
90°-150°	60.9	2.4
90°-180°	61.0	2.4
0°-180°	2510.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	871	864	856	859	856	83
15°	837	824	812	817	815	236
25°	771	755	752	760	760	355
35°	671	659	664	672	672	419
45°	538	534	551	565	568	414
55°	384	392	426	456	464	344
65°	242	258	315	347	352	240
75°	125	151	191	198	198	133
85°	38	60	78	78	75	40
90°	13	32	47	47	45	8
95°	12	18	29	30	29	9
105°	9	9	16	18	17	10
115°	5	4	11	14	14	5
125°	2	1	7	10	12	2
135°	1	1	2	6	7	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.3	869.3	869.3	869.3	869.3
2.5°	873.8	868.9	862.3	866.8	864.8
5°	870.9	864.4	855.8	858.6	855.8
7.5°	866.0	857.8	846.8	848.0	845.2
10°	858.6	848.8	836.1	837.4	834.5
12.5°	849.2	837.4	823.5	828.0	825.1
15°	837.4	823.9	812.0	816.9	814.9
17.5°	824.3	809.6	798.5	806.3	804.6
20°	808.7	792.4	785.4	792.8	791.6
22.5°	791.1	773.6	769.9	778.1	776.8
25°	771.1	754.7	752.3	760.5	759.6
27.5°	749.4	732.2	733.5	740.4	740.0
30°	726.1	711.0	710.6	720.0	719.6
32.5°	699.9	684.8	688.9	696.2	695.0
35°	671.3	659.0	664.3	672.5	672.5
37.5°	641.4	630.0	636.9	645.5	647.6
40°	607.5	598.9	610.3	620.6	621.8
42.5°	573.1	567.4	581.3	592.8	595.2
45°	537.9	533.8	551.4	565.3	568.2
47.5°	500.3	500.3	520.4	537.1	542.4
50°	463.1	463.1	488.4	509.3	515.4
52.5°	421.8	427.5	456.5	481.5	490.5
55°	383.7	392.3	425.9	456.1	464.3
57.5°	346.1	356.7	396.0	431.2	440.6
60°	309.7	324.0	368.2	405.8	416.4
62.5°	275.3	290.4	341.6	378.4	385.8
65°	241.8	258.5	315.0	347.3	351.8
67.5°	209.4	231.1	287.2	311.7	313.3
70°	178.4	203.7	255.7	274.1	271.6
72.5°	151.4	176.7	223.4	236.0	232.0
75°	125.2	151.4	191.0	198.4	198.0
77.5°	100.6	126.4	159.5	163.6	159.5
80°	77.3	103.1	128.4	130.5	126.8
82.5°	57.7	79.8	101.1	102.3	100.2
85°	38.4	60.1	78.1	78.5	75.3
87.5°	23.3	43.8	59.7	60.5	58.1
90°	12.7	31.5	46.6	47.0	45.4
92.5°	11.9	22.9	36.0	36.8	36.0
95°	11.5	17.6	29.0	29.9	29.0
97.5°	11.5	14.3	23.7	24.9	24.1
100°	10.6	11.9	20.0	21.3	20.9
102.5°	10.2	9.8	17.6	19.2	18.4
105°	9.0	8.6	15.5	17.6	17.2
107.5°	8.2	7.4	14.3	16.4	16.0
110°	6.9	6.6	13.1	15.5	15.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	5.3	11.9	14.7	14.7
115°	4.9	4.5	10.6	14.3	14.3
117.5°	4.1	3.7	9.8	13.5	13.9
120°	3.3	2.9	8.6	12.3	13.1
122.5°	2.9	2.0	7.4	11.5	12.3
125°	2.0	1.2	6.6	10.2	11.5
127.5°	1.6	1.2	5.3	9.0	10.2
130°	1.2	0.8	4.5	8.2	9.0
132.5°	1.2	0.8	3.3	6.9	7.8
135°	0.8	0.8	2.5	5.7	6.9
137.5°	0.8	0.4	1.6	4.5	5.7
140°	0.8	0.4	0.8	3.7	4.5
142.5°	0.4	0.4	0.4	2.5	3.3
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)