

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: P397321

Luminaire Tested: **8VRVT2-LD5-16-DR-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-16-DR-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.6 lumens
Efficiency: N/A
Efficacy: 8.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

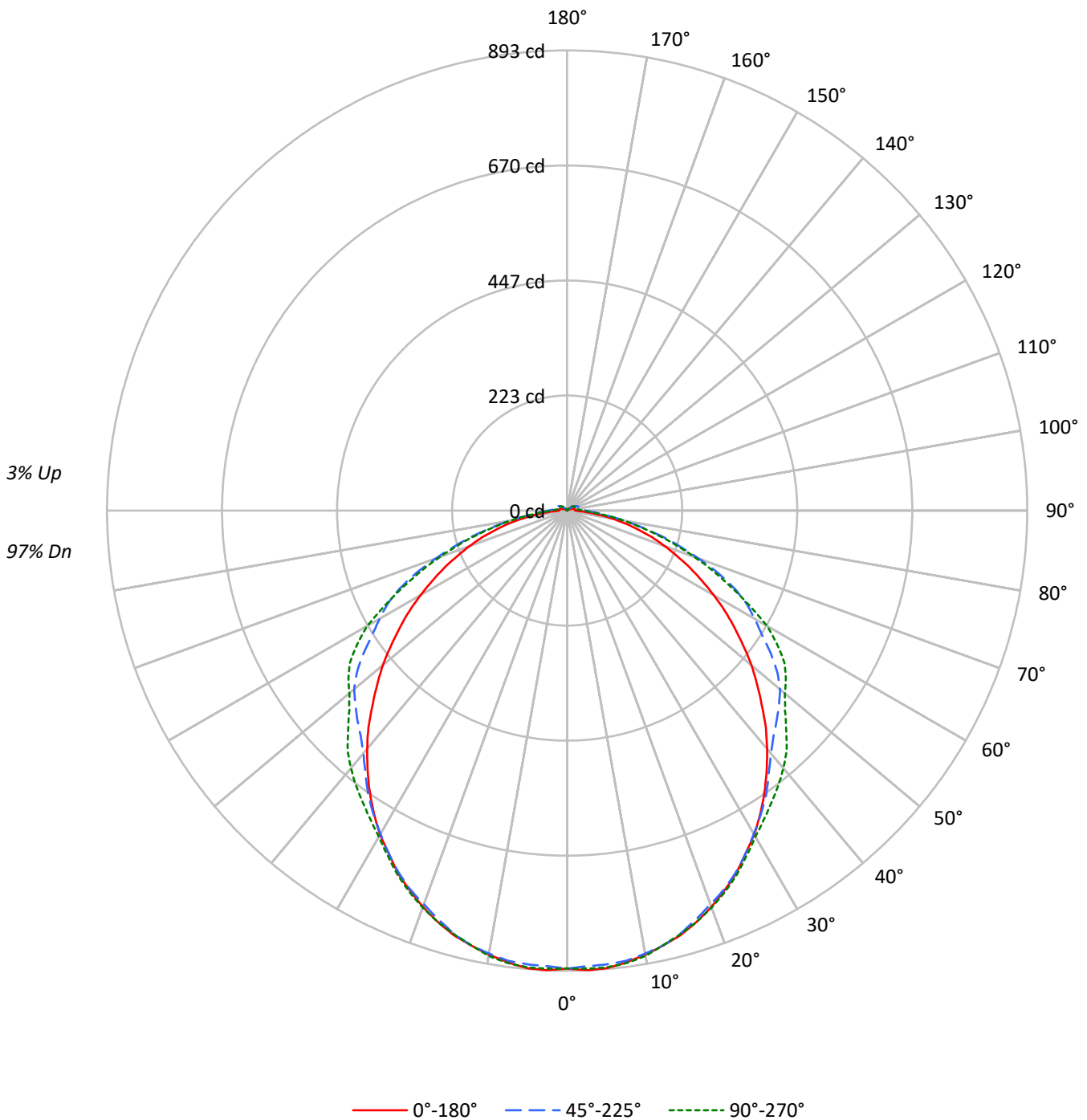
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
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	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2296	2296	2296
5°	2307	2243	2242
10°	2287	2193	2174
15°	2268	2130	2088
20°	2233	2049	2010
25°	2192	1978	1923
30°	2141	1889	1828
35°	2076	1806	1767
40°	2003	1715	1720
45°	1914	1682	1647
50°	1833	1671	1586
55°	1736	1601	1571
60°	1639	1515	1467
65°	1542	1429	1251
70°	1441	1211	1035
75°	1325	965	802
80°	1176	693	571
85°	958	475	345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.2
10°-20°	240.3	9.1
20°-30°	358.1	13.6
30°-40°	423.7	16.1
40°-50°	441.1	16.7
50°-60°	415.0	15.8
60°-70°	332.5	12.6
70°-80°	193.2	7.3
80°-90°	68.1	2.6
90°-100°	26.3	1.0
100°-110°	20.0	0.8
110°-120°	15.2	0.6
120°-130°	9.3	0.4
130°-140°	4.5	0.2
140°-150°	1.5	0.1
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	682.8	25.9
0°-40°	1106.5	42.0
0°-60°	1962.6	74.5
0°-90°	2556.4	97.1
90°-120°	61.5	2.3
90°-150°	76.8	2.9
90°-180°	77.0	2.9
0°-180°	2633.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	887	884	892	890	84
15°	852	855	850	852	851	240
25°	776	779	775	780	780	357
35°	668	669	673	684	691	417
45°	534	540	575	604	601	413
55°	396	420	482	503	515	355
65°	263	329	359	356	351	261
75°	143	198	187	183	180	152
85°	40	60	62	60	56	42
90°	15	33	36	34	31	9
95°	15	24	27	23	21	12
105°	12	18	24	20	17	13
115°	6	12	20	18	16	7
125°	3	4	13	15	14	2
135°	1	1	6	10	11	1
145°	1	0	1	4	5	0
155°	0	0	0	0	1	0
165°	0	0	0	0	0	0
175°	1	1	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°	888.7	888.7	888.7	888.7	888.7
2.5°	892.8	889.6	884.8	891.2	889.6
5°	891.2	887.4	883.9	891.5	889.6
7.5°	884.2	883.5	881.0	887.4	885.8
10°	874.9	876.8	872.7	877.8	877.5
12.5°	864.0	868.8	864.0	865.3	863.4
15°	852.5	855.4	849.9	851.5	850.6
17.5°	836.5	840.7	831.7	839.7	836.5
20°	818.3	822.4	813.1	822.1	819.9
22.5°	797.8	801.6	795.9	802.3	800.7
25°	776.3	778.9	774.7	780.5	779.5
27.5°	749.8	755.9	750.4	757.5	754.6
30°	726.1	728.3	724.5	733.1	730.9
32.5°	697.6	699.2	699.2	706.9	710.7
35°	667.5	669.1	673.0	684.5	691.2
37.5°	635.9	639.4	642.9	665.6	673.0
40°	603.8	606.4	615.0	648.0	652.8
42.5°	570.6	573.1	593.0	629.1	630.7
45°	534.4	539.8	575.4	603.5	601.0
47.5°	500.2	506.9	557.4	570.9	573.4
50°	466.9	474.6	539.5	544.6	551.4
52.5°	431.0	445.8	513.9	521.0	535.0
55°	396.5	419.8	482.2	503.0	514.9
57.5°	363.5	393.9	447.7	480.0	483.2
60°	328.3	371.8	420.2	447.7	448.0
62.5°	294.7	350.7	393.0	403.5	399.0
65°	263.0	329.0	359.0	355.8	351.0
67.5°	230.7	301.1	317.1	310.1	306.9
70°	201.3	271.0	270.4	264.3	262.4
72.5°	173.1	233.6	227.2	221.8	220.2
75°	142.7	197.8	186.9	182.7	180.2
77.5°	115.2	160.6	145.9	144.3	142.4
80°	88.0	122.6	112.6	113.0	111.0
82.5°	60.8	88.0	82.6	81.9	79.7
85°	39.7	60.5	61.8	59.5	56.0
87.5°	21.4	42.2	45.1	43.5	41.0
90°	15.0	32.6	35.5	33.6	31.4
92.5°	15.0	27.5	30.1	27.2	25.3
95°	15.4	24.0	26.9	23.4	21.4
97.5°	15.4	21.8	25.0	21.1	18.9
100°	14.7	20.5	24.3	20.2	17.9
102.5°	13.8	19.2	24.0	19.5	17.3
105°	12.5	17.9	23.7	19.5	16.6
107.5°	10.9	16.6	23.4	19.2	16.6
110°	9.3	15.0	22.7	19.2	16.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.0	13.4	21.8	18.9	16.3
115°	6.4	11.5	20.5	18.2	16.0
117.5°	5.1	9.6	18.9	17.6	15.7
120°	4.2	7.7	17.3	17.0	15.4
122.5°	3.2	5.8	15.4	16.0	14.7
125°	2.6	4.2	13.4	15.0	14.4
127.5°	1.9	2.9	11.5	14.1	13.4
130°	1.6	1.6	9.6	12.8	12.5
132.5°	1.3	1.3	8.0	11.5	11.8
135°	1.0	1.0	6.4	9.9	10.6
137.5°	1.0	0.6	4.8	8.6	9.3
140°	0.6	0.6	3.5	7.0	7.7
142.5°	0.6	0.6	2.2	5.8	6.4
145°	0.6	0.3	1.3	4.2	5.1
147.5°	0.6	0.3	0.6	2.9	3.8
150°	0.3	0.3	0.3	1.9	2.6
152.5°	0.3	0.3	0.3	1.0	1.3
155°	0.3	0.3	0.3	0.3	0.6
157.5°	0.3	0.3	0.3	0.3	0.0
160°	0.3	0.3	0.3	0.3	0.0
162.5°	0.3	0.3	0.3	0.3	0.0
165°	0.3	0.3	0.3	0.3	0.0
167.5°	0.6	0.3	0.3	0.3	0.0
170°	0.6	0.3	0.3	0.3	0.0
172.5°	0.6	0.6	0.3	0.3	0.0
175°	0.6	0.6	0.3	0.3	0.3
177.5°	0.6	0.6	0.3	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)