

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: P397349

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
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-DR-UNV-LA59-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2535.1 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

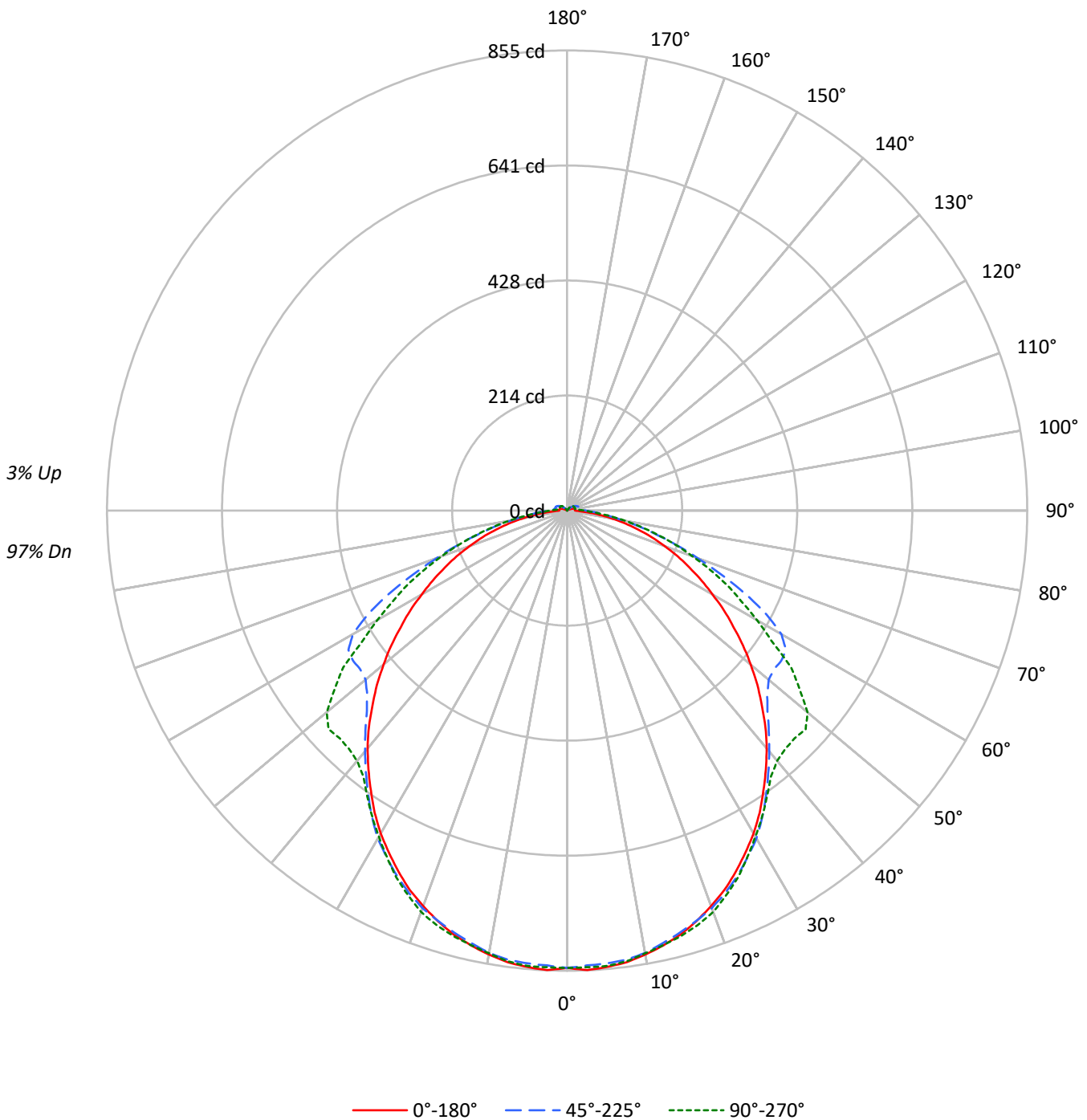
Input Watts (W): 100.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	80	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	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
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	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2195	2195	2195
5°	2204	2143	2140
10°	2190	2097	2070
15°	2169	2034	2009
20°	2134	1980	1946
25°	2092	1911	1854
30°	2044	1834	1750
35°	1977	1729	1656
40°	1913	1629	1600
45°	1832	1538	1639
50°	1747	1514	1677
55°	1653	1613	1549
60°	1557	1658	1335
65°	1470	1451	1170
70°	1380	1154	977
75°	1269	885	777
80°	1126	647	566
85°	926	465	360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.2
10°-20°	230.4	9.1
20°-30°	344.3	13.6
30°-40°	403.4	15.9
40°-50°	422.2	16.7
50°-60°	408.3	16.1
60°-70°	317.4	12.5
70°-80°	187.3	7.4
80°-90°	67.5	2.7
90°-100°	25.2	1.0
100°-110°	18.9	0.7
110°-120°	14.6	0.6
120°-130°	9.3	0.4
130°-140°	4.8	0.2
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	655.4	25.9
0°-40°	1058.8	41.8
0°-60°	1889.3	74.5
0°-90°	2461.5	97.1
90°-120°	58.6	2.3
90°-150°	73.6	2.9
90°-180°	74.0	2.9
0°-180°	2535.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	851	847	844	852	849	81
15°	815	818	812	822	818	230
25°	741	744	749	754	752	341
35°	636	644	644	648	648	398
45°	511	520	526	576	598	395
55°	378	391	486	518	508	338
65°	251	302	364	326	328	249
75°	137	204	171	174	175	145
85°	38	60	60	60	58	41
90°	15	32	35	33	31	9
95°	15	23	25	22	20	12
105°	12	18	22	18	15	13
115°	6	12	20	17	15	6
125°	2	4	14	15	14	2
135°	1	1	7	11	11	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°	849.7	849.7	849.7	849.7	849.7
2.5°	854.6	850.5	846.0	851.3	849.3
5°	851.3	847.2	844.4	851.7	849.3
7.5°	846.4	843.6	841.9	848.0	844.8
10°	837.8	836.6	834.5	840.7	835.4
12.5°	827.2	828.4	823.1	830.0	826.8
15°	815.3	817.8	811.6	821.5	818.2
17.5°	799.8	802.6	799.0	811.2	807.5
20°	781.8	783.4	785.9	794.4	793.6
22.5°	763.4	764.6	768.7	775.2	773.2
25°	740.9	744.1	748.6	754.4	751.5
27.5°	716.7	721.6	726.1	730.6	725.7
30°	693.0	695.5	703.6	703.2	699.6
32.5°	665.6	671.7	675.0	673.8	674.2
35°	635.7	643.9	644.3	648.0	647.6
37.5°	606.3	615.3	614.0	621.0	622.2
40°	576.8	583.0	584.2	596.5	607.1
42.5°	545.3	551.5	554.7	580.5	600.1
45°	511.4	520.4	526.1	576.4	598.1
47.5°	479.4	487.6	504.0	576.4	601.0
50°	445.1	454.9	488.9	575.2	583.0
52.5°	412.0	421.8	484.4	557.6	544.1
55°	377.6	390.7	486.0	518.3	507.7
57.5°	345.7	364.1	481.9	471.3	450.0
60°	311.7	338.7	459.8	418.9	407.5
62.5°	281.9	318.3	417.3	369.0	364.9
65°	250.8	301.5	364.5	325.6	328.1
67.5°	222.5	286.4	309.3	286.0	287.6
70°	192.7	268.4	257.7	248.3	247.9
72.5°	164.9	242.6	212.7	209.9	211.1
75°	136.6	204.1	171.4	173.5	174.7
77.5°	110.9	164.9	137.5	139.9	139.9
80°	84.3	123.1	105.1	109.6	110.0
82.5°	60.5	87.9	80.2	82.6	80.6
85°	38.4	60.5	60.5	60.1	58.5
87.5°	21.7	41.7	44.2	43.8	41.7
90°	14.7	31.5	34.8	33.1	31.1
92.5°	14.7	26.6	29.0	26.2	24.1
95°	15.1	22.9	25.4	22.1	19.6
97.5°	14.7	21.3	23.7	19.6	17.2
100°	14.3	19.6	22.9	18.4	16.0
102.5°	13.5	18.8	22.5	17.6	15.1
105°	12.3	18.0	22.1	17.6	15.1
107.5°	10.6	16.8	22.1	17.6	15.1
110°	9.4	15.1	21.7	17.2	14.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	13.5	20.9	17.2	14.7
115°	6.1	11.9	19.6	16.8	14.7
117.5°	5.3	9.8	18.4	16.8	14.7
120°	4.1	8.2	17.2	16.0	14.3
122.5°	3.3	6.1	15.5	15.5	13.9
125°	2.5	4.5	13.5	14.7	13.9
127.5°	2.0	3.3	11.9	13.9	13.5
130°	1.6	2.0	10.2	13.1	12.7
132.5°	1.2	1.2	8.6	11.9	11.9
135°	1.2	0.8	6.9	10.6	11.0
137.5°	0.8	0.8	5.3	9.0	9.8
140°	0.8	0.8	4.1	7.8	8.6
142.5°	0.8	0.8	2.9	6.1	6.9
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)