

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: P397310

Luminaire Tested: **8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.1 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

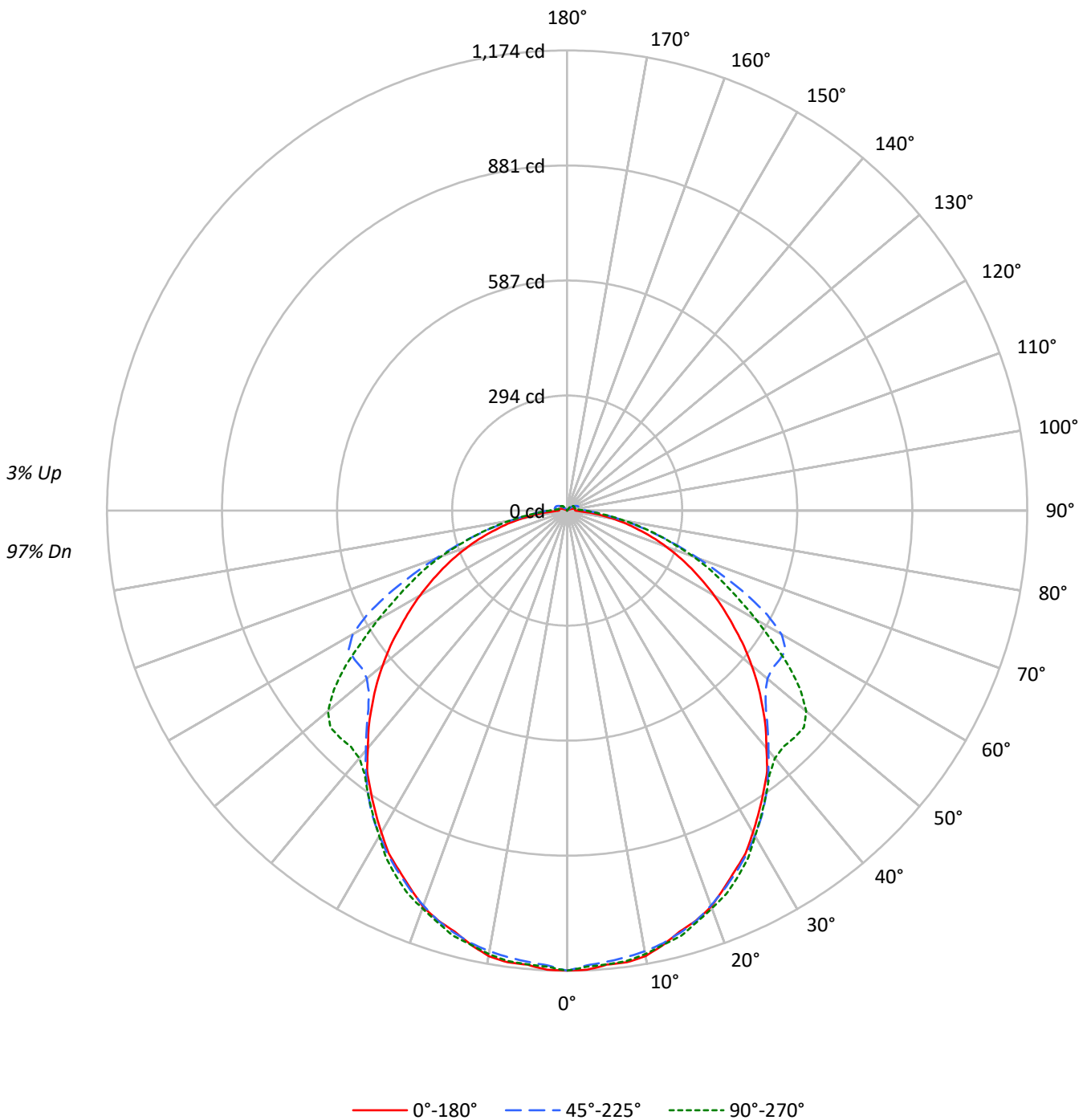
Input Watts (W): 154.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P397310

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P397310

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U

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	104	100	96	92	95	92	89	91	88	86	87	84	82	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	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	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°	3032	3032	3032
5°	3011	2933	2928
10°	3017	2869	2847
15°	2957	2794	2758
20°	2934	2702	2648
25°	2862	2600	2543
30°	2796	2496	2399
35°	2718	2375	2262
40°	2622	2227	2174
45°	2523	2095	2246
50°	2411	2065	2290
55°	2280	2199	2105
60°	2164	2278	1825
65°	2048	2004	1583
70°	1920	1587	1347
75°	1758	1224	1059
80°	1578	889	758
85°	1257	633	497



TEST NUMBER: P397310

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.2
10°-20°	315.3	9.1
20°-30°	471.2	13.6
30°-40°	551.9	15.9
40°-50°	576.6	16.6
50°-60°	560.2	16.1
60°-70°	435.8	12.5
70°-80°	256.5	7.4
80°-90°	92.6	2.7
90°-100°	35.2	1.0
100°-110°	26.2	0.8
110°-120°	20.4	0.6
120°-130°	13.0	0.4
130°-140°	6.6	0.2
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	897.0	25.8
0°-40°	1448.8	41.7
0°-60°	2585.6	74.4
0°-90°	3370.5	97.0
90°-120°	81.7	2.4
90°-150°	102.6	3.0
90°-180°	103.0	3.0
0°-180°	3473.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1163	1160	1156	1164	1162	111
15°	1112	1115	1115	1125	1123	315
25°	1014	1022	1018	1031	1031	468
35°	874	880	885	885	885	547
45°	704	711	717	783	820	543
55°	521	537	662	714	690	467
65°	349	414	503	444	444	346
75°	189	281	237	235	238	202
85°	52	84	82	82	81	57
90°	21	44	49	46	45	13
95°	21	32	35	31	28	17
105°	17	25	31	24	21	18
115°	9	17	27	24	20	9
125°	4	7	19	21	19	3
135°	2	1	10	15	15	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



TEST NUMBER: P397310

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.6	1173.6	1173.6	1173.6	1173.6
2.5°	1172.5	1167.5	1161.3	1168.0	1164.7
5°	1163.0	1159.6	1155.7	1163.5	1161.9
7.5°	1162.4	1155.1	1149.5	1159.6	1159.1
10°	1154.0	1144.5	1141.7	1152.3	1149.0
12.5°	1134.4	1129.9	1130.5	1142.3	1134.4
15°	1111.5	1114.8	1114.8	1124.9	1123.2
17.5°	1096.3	1096.3	1096.9	1103.6	1100.8
20°	1075.1	1073.9	1072.3	1083.5	1080.1
22.5°	1043.7	1048.2	1046.5	1061.6	1059.4
25°	1013.5	1021.9	1018.5	1031.4	1030.8
27.5°	986.0	990.5	990.0	1000.6	999.5
30°	948.0	955.2	957.5	964.2	959.2
32.5°	911.0	918.3	924.4	924.4	921.6
35°	874.0	880.2	884.7	885.2	884.7
37.5°	838.2	838.8	843.2	843.2	848.3
40°	790.6	797.4	799.0	811.9	824.8
42.5°	749.8	753.7	757.6	790.6	816.9
45°	704.4	711.1	716.7	783.4	819.7
47.5°	660.2	665.8	685.9	786.2	819.2
50°	614.2	622.1	666.9	789.0	796.2
52.5°	568.9	579.5	660.2	764.3	749.8
55°	520.7	537.0	662.4	713.9	689.8
57.5°	476.5	500.0	661.3	647.8	618.7
60°	433.4	467.0	631.6	572.8	557.1
62.5°	390.8	439.0	575.0	505.6	497.2
65°	349.4	413.8	503.4	444.0	444.0
67.5°	308.0	393.6	425.0	389.1	394.7
70°	268.2	369.5	354.4	334.3	341.6
72.5°	228.5	332.6	292.9	285.6	287.3
75°	189.3	281.1	236.9	235.2	238.0
77.5°	155.1	224.0	185.9	191.5	192.6
80°	118.1	168.5	144.5	149.5	147.3
82.5°	82.9	120.9	109.2	112.6	111.4
85°	52.1	84.0	82.3	81.8	80.6
87.5°	29.7	57.1	61.0	61.0	58.8
90°	20.7	43.7	48.7	45.9	44.8
92.5°	20.7	37.0	40.3	36.4	34.2
95°	21.3	31.9	35.3	30.8	28.0
97.5°	21.3	29.7	33.0	27.4	24.6
100°	20.7	27.4	31.9	25.2	22.4
102.5°	19.0	26.3	31.4	24.6	21.3
105°	17.4	24.6	30.8	24.1	20.7
107.5°	15.7	23.0	30.8	24.1	20.2
110°	13.4	21.3	30.2	24.1	20.2



TEST NUMBER: P397310

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-UNV-LA59-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.2	19.0	29.1	23.5	20.2
115°	9.0	16.8	27.4	23.5	20.2
117.5°	7.3	14.0	25.8	23.0	20.2
120°	6.2	11.2	24.1	22.4	19.6
122.5°	4.5	9.0	21.3	21.3	19.6
125°	3.9	6.7	19.0	20.7	19.0
127.5°	2.8	4.5	16.8	19.0	18.5
130°	2.2	2.8	14.0	17.9	17.9
132.5°	1.7	1.7	11.8	16.2	16.8
135°	1.7	1.1	9.5	14.6	15.1
137.5°	1.1	1.1	7.3	12.3	14.0
140°	1.1	1.1	5.6	10.6	11.8
142.5°	1.1	1.1	3.9	8.4	10.1
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)