

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: P397287

Luminaire Tested: **4VRVT2-LD5-8-DR100-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 4VRVT2-LD5-8-DR100-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6592.9 lumens
Efficiency: N/A
Efficacy: 47.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

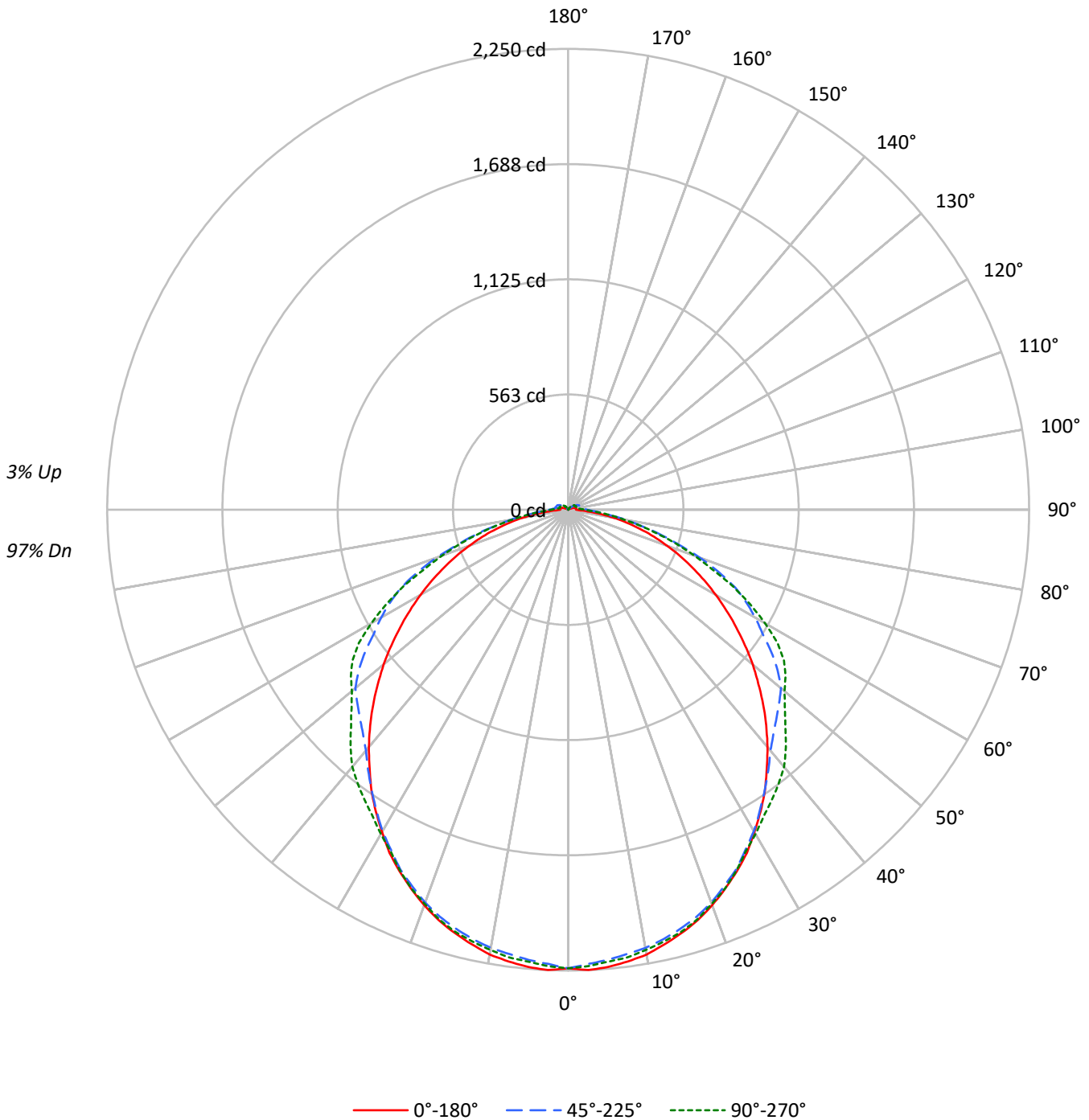
Input Watts (W): 139.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	56
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	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°	11569	11569	11569
5°	11581	11185	11163
10°	11490	10888	10818
15°	11325	10579	10477
20°	11138	10241	10042
25°	10902	9839	9588
30°	10594	9381	9150
35°	10268	8901	8857
40°	9877	8477	8639
45°	9459	8310	8211
50°	9022	8291	7925
55°	8528	7913	7846
60°	8040	7471	7264
65°	7512	7013	6325
70°	6958	5975	5160
75°	6323	4650	3985
80°	5432	3403	2816
85°	3840	2255	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.2
10°-20°	600.3	9.1
20°-30°	894.1	13.6
30°-40°	1057.9	16.0
40°-50°	1104.8	16.8
50°-60°	1039.4	15.8
60°-70°	833.6	12.6
70°-80°	483.8	7.3
80°-90°	172.3	2.6
90°-100°	67.3	1.0
100°-110°	50.6	0.8
110°-120°	38.5	0.6
120°-130°	23.6	0.4
130°-140°	11.5	0.2
140°-150°	3.8	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1705.3	25.9
0°-40°	2763.2	41.9
0°-60°	4907.5	74.4
0°-90°	6397.2	97.0
90°-120°	156.3	2.4
90°-150°	195.2	3.0
90°-180°	196.0	3.0
0°-180°	6592.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2241	2229	2206	2218	2215	213
15°	2140	2124	2118	2139	2134	603
25°	1948	1937	1938	1952	1943	897
35°	1674	1671	1672	1709	1732	1045
45°	1346	1354	1438	1509	1498	1038
55°	1001	1050	1210	1254	1286	896
65°	667	830	898	892	887	663
75°	364	499	462	454	448	386
85°	94	154	153	150	147	106
90°	38	82	92	86	82	23
95°	39	61	68	60	54	32
105°	32	46	60	49	42	33
115°	17	29	52	46	40	17
125°	6	11	34	38	36	6
135°	3	2	16	26	26	2
145°	2	2	3	11	13	1
155°	1	1	1	1	2	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°	2239.2	2239.2	2239.2	2239.2	2239.2
2.5°	2249.6	2237.6	2220.0	2236.0	2230.4
5°	2240.8	2228.8	2206.4	2217.6	2215.2
7.5°	2224.8	2208.8	2188.8	2206.4	2204.8
10°	2205.6	2187.2	2172.0	2188.8	2183.2
12.5°	2173.6	2159.2	2148.0	2168.0	2159.2
15°	2140.0	2124.0	2117.6	2139.2	2133.6
17.5°	2101.6	2088.8	2084.0	2096.0	2096.8
20°	2055.2	2045.6	2041.6	2057.6	2048.0
22.5°	2002.4	1988.8	1989.6	2006.4	2001.6
25°	1948.0	1936.8	1938.4	1952.0	1943.2
27.5°	1888.8	1876.0	1872.8	1887.2	1878.4
30°	1816.8	1814.4	1812.0	1824.0	1828.8
32.5°	1747.2	1746.4	1741.6	1758.4	1775.2
35°	1673.6	1671.2	1672.0	1708.8	1732.0
37.5°	1592.0	1594.4	1604.0	1663.2	1686.4
40°	1513.6	1514.4	1535.2	1624.0	1639.2
42.5°	1430.4	1432.0	1482.4	1576.0	1572.8
45°	1346.4	1353.6	1437.6	1508.8	1498.4
47.5°	1259.2	1272.8	1396.0	1433.6	1434.4
50°	1176.0	1193.6	1356.0	1364.8	1377.6
52.5°	1087.2	1121.6	1288.8	1300.8	1336.8
55°	1000.8	1050.4	1209.6	1253.6	1285.6
57.5°	916.0	988.8	1124.0	1193.6	1211.2
60°	832.0	933.6	1053.6	1110.4	1108.8
62.5°	749.6	880.8	980.0	1006.4	1002.4
65°	667.2	830.4	898.4	892.0	887.2
67.5°	591.2	761.6	794.4	768.0	760.0
70°	511.2	678.4	682.4	656.0	654.4
72.5°	439.2	588.8	564.8	552.0	552.8
75°	364.0	499.2	462.4	453.6	448.0
77.5°	293.6	400.8	364.8	363.2	360.0
80°	224.0	308.8	285.6	278.4	273.6
82.5°	156.0	223.2	208.8	208.8	205.6
85°	94.4	154.4	152.8	149.6	147.2
87.5°	52.8	106.4	114.4	111.2	104.8
90°	38.4	82.4	92.0	86.4	81.6
92.5°	38.4	69.6	76.8	70.4	64.8
95°	39.2	60.8	68.0	60.0	54.4
97.5°	39.2	56.0	64.0	54.4	48.8
100°	37.6	52.0	61.6	51.2	44.8
102.5°	35.2	48.8	60.0	49.6	43.2
105°	32.0	45.6	60.0	48.8	42.4
107.5°	28.0	42.4	58.4	48.8	41.6
110°	24.0	38.4	57.6	48.0	41.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.8	33.6	55.2	47.2	40.8
115°	16.8	28.8	52.0	46.4	40.0
117.5°	13.6	24.0	48.0	44.8	39.2
120°	11.2	19.2	43.2	42.4	38.4
122.5°	8.0	14.4	39.2	40.8	37.6
125°	6.4	11.2	34.4	37.6	36.0
127.5°	5.6	7.2	29.6	35.2	34.4
130°	4.0	4.8	24.8	32.0	32.0
132.5°	3.2	3.2	20.0	28.8	29.6
135°	3.2	2.4	16.0	25.6	26.4
137.5°	2.4	2.4	12.8	21.6	23.2
140°	1.6	1.6	8.8	17.6	20.0
142.5°	1.6	1.6	5.6	14.4	16.0
145°	1.6	1.6	3.2	11.2	12.8
147.5°	1.6	0.8	1.6	8.0	9.6
150°	1.6	0.8	0.8	4.8	6.4
152.5°	0.8	0.8	0.8	2.4	4.0
155°	0.8	0.8	0.8	0.8	1.6
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)