

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: P397311

Luminaire Tested: **8VRVT2-LD5-12-DR100-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397311
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-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9923.3 lumens
Efficiency: N/A
Efficacy: 41.2 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

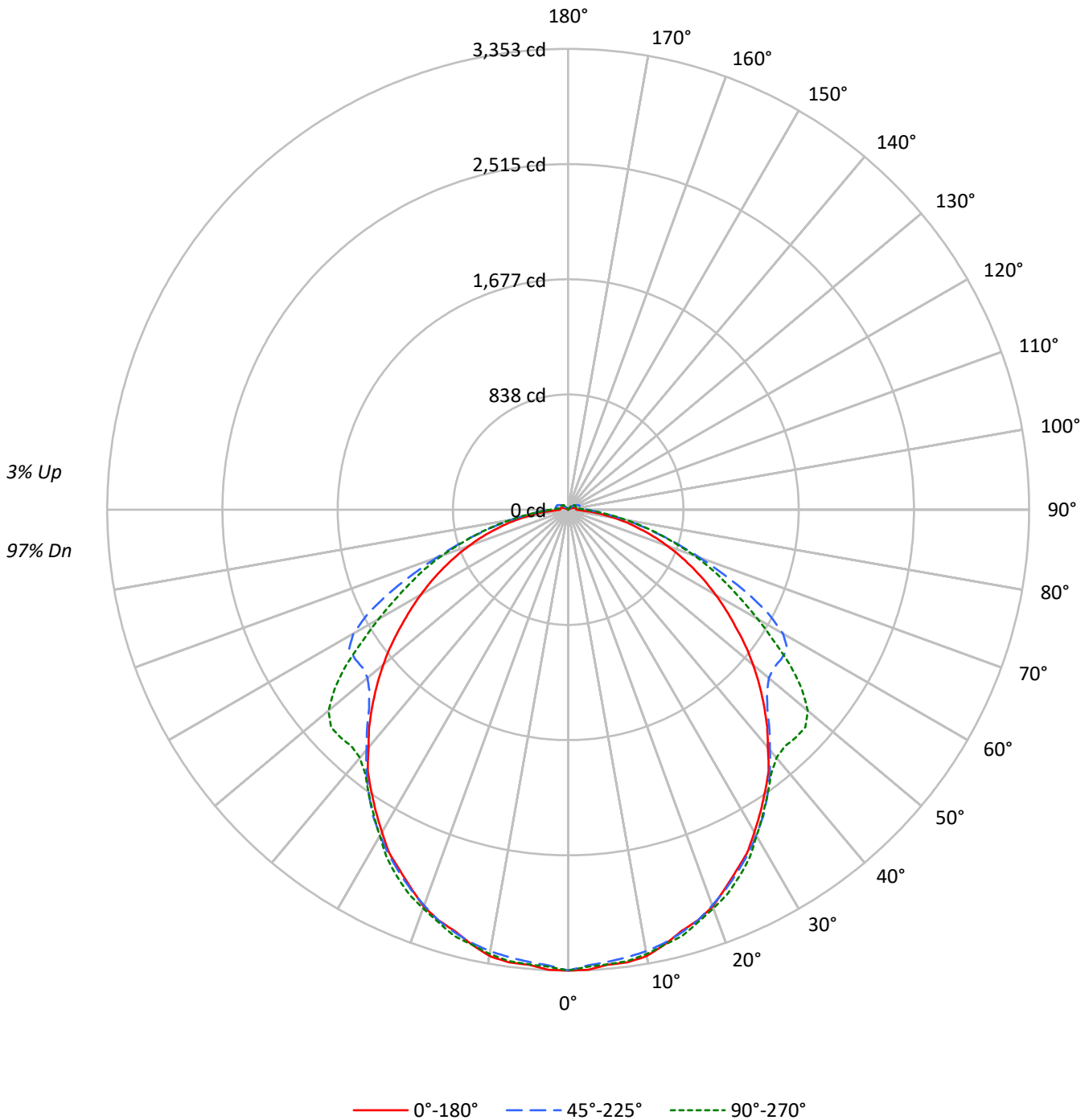
Input Watts (W): 240.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8662	8662	8662
5°	8602	8380	8364
10°	8619	8196	8133
15°	8448	7984	7879
20°	8383	7720	7566
25°	8178	7429	7266
30°	7987	7132	6856
35°	7767	6785	6463
40°	7492	6365	6210
45°	7209	5986	6417
50°	6889	5901	6544
55°	6515	6282	6014
60°	6183	6508	5214
65°	5851	5724	4522
70°	5487	4535	3848
75°	5022	3495	3024
80°	4509	2540	2165
85°	3590	1808	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	3.2
10°-20°	900.8	9.1
20°-30°	1346.4	13.6
30°-40°	1576.8	15.9
40°-50°	1647.4	16.6
50°-60°	1600.5	16.1
60°-70°	1245.2	12.5
70°-80°	732.7	7.4
80°-90°	264.7	2.7
90°-100°	100.5	1.0
100°-110°	74.9	0.8
110°-120°	58.2	0.6
120°-130°	37.0	0.4
130°-140°	18.8	0.2
140°-150°	3.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2562.8	25.8
0°-40°	4139.6	41.7
0°-60°	7387.5	74.4
0°-90°	9630.1	97.0
90°-120°	233.5	2.4
90°-150°	293.1	3.0
90°-180°	293.0	3.0
0°-180°	9923.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3353	3353	3353	3353	3353	
5°	3323	3313	3302	3324	3320	317
15°	3176	3185	3185	3214	3209	899
25°	2896	2920	2910	2947	2945	1336
35°	2497	2515	2528	2529	2528	1562
45°	2013	2032	2048	2238	2342	1553
55°	1488	1534	1893	2040	1971	1335
65°	998	1182	1438	1269	1269	989
75°	541	803	677	672	680	577
85°	149	240	235	234	230	162
90°	59	125	139	131	128	36
95°	61	91	101	88	80	49
105°	50	70	88	69	59	52
115°	26	48	78	67	58	27
125°	11	19	54	59	54	10
135°	5	3	27	42	43	3
145°	0	0	0	0	0	1
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°	3353.2	3353.2	3353.2	3353.2	3353.2
2.5°	3350.0	3335.6	3318.0	3337.2	3327.6
5°	3322.8	3313.2	3302.0	3324.4	3319.6
7.5°	3321.2	3300.4	3284.4	3313.2	3311.6
10°	3297.2	3270.0	3262.0	3292.4	3282.8
12.5°	3241.2	3228.4	3230.0	3263.6	3241.2
15°	3175.6	3185.2	3185.2	3214.0	3209.2
17.5°	3132.4	3132.4	3134.0	3153.2	3145.2
20°	3071.6	3068.4	3063.6	3095.6	3086.0
22.5°	2982.0	2994.8	2990.0	3033.2	3026.8
25°	2895.7	2919.7	2910.1	2946.9	2945.3
27.5°	2817.3	2830.1	2828.5	2858.9	2855.7
30°	2708.5	2729.3	2735.7	2754.9	2740.5
32.5°	2602.9	2623.7	2641.3	2641.3	2633.3
35°	2497.3	2514.9	2527.7	2529.3	2527.7
37.5°	2394.9	2396.5	2409.3	2409.3	2423.7
40°	2259.0	2278.2	2283.0	2319.7	2356.5
42.5°	2142.2	2153.4	2164.6	2259.0	2334.1
45°	2012.6	2031.8	2047.8	2238.2	2342.1
47.5°	1886.2	1902.2	1959.8	2246.2	2340.5
50°	1755.0	1777.4	1905.4	2254.2	2275.0
52.5°	1625.4	1655.8	1886.2	2183.8	2142.2
55°	1487.8	1534.2	1892.6	2039.8	1971.0
57.5°	1361.4	1428.6	1889.4	1851.0	1767.8
60°	1238.2	1334.2	1804.6	1636.6	1591.8
62.5°	1116.6	1254.2	1643.0	1444.6	1420.6
65°	998.2	1182.2	1438.2	1268.6	1268.6
67.5°	879.9	1124.6	1214.2	1111.8	1127.8
70°	766.3	1055.8	1012.6	955.1	975.9
72.5°	652.7	950.3	836.7	815.9	820.7
75°	540.7	803.1	676.7	671.9	679.9
77.5°	443.1	639.9	531.1	547.1	550.3
80°	337.5	481.5	412.7	427.1	420.7
82.5°	236.8	345.5	312.0	321.6	318.4
85°	148.8	240.0	235.2	233.6	230.4
87.5°	84.8	163.2	174.4	174.4	168.0
90°	59.2	124.8	139.2	131.2	128.0
92.5°	59.2	105.6	115.2	104.0	97.6
95°	60.8	91.2	100.8	88.0	80.0
97.5°	60.8	84.8	94.4	78.4	70.4
100°	59.2	78.4	91.2	72.0	64.0
102.5°	54.4	75.2	89.6	70.4	60.8
105°	49.6	70.4	88.0	68.8	59.2
107.5°	44.8	65.6	88.0	68.8	57.6
110°	38.4	60.8	86.4	68.8	57.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.0	54.4	83.2	67.2	57.6
115°	25.6	48.0	78.4	67.2	57.6
117.5°	20.8	40.0	73.6	65.6	57.6
120°	17.6	32.0	68.8	64.0	56.0
122.5°	12.8	25.6	60.8	60.8	56.0
125°	11.2	19.2	54.4	59.2	54.4
127.5°	8.0	12.8	48.0	54.4	52.8
130°	6.4	8.0	40.0	51.2	51.2
132.5°	4.8	4.8	33.6	46.4	48.0
135°	4.8	3.2	27.2	41.6	43.2
137.5°	3.2	3.2	20.8	35.2	40.0
140°	3.2	3.2	16.0	30.4	33.6
142.5°	3.2	3.2	11.2	24.0	28.8
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)