

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: P397224

Luminaire Tested: **2VRVT2-LD5-5-FR50-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT2-LD5-5-FR50-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4075.9 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

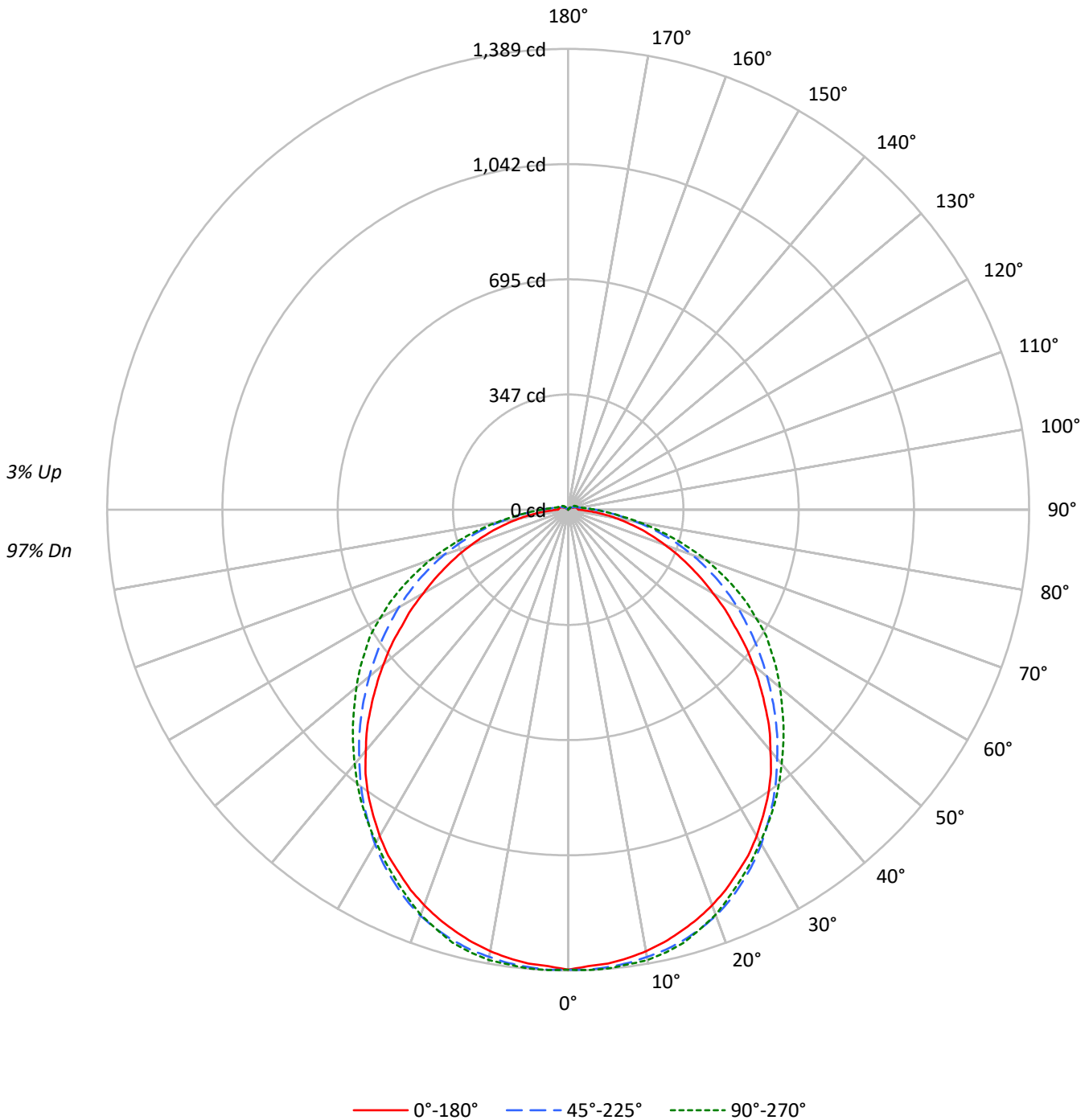
Input Watts (W): 92.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	99	99	99	97	
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	87	84	82	80	
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	76	72	69	66	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	60	54	50	47	
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	54	48	43	41	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	49	43	38	36	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32	
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	28	
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	38	32	27	26	
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14325	14325	14325
5°	14143	13995	13986
10°	13984	13661	13659
15°	13777	13329	13260
20°	13554	12941	12742
25°	13266	12445	12133
30°	12954	11884	11580
35°	12545	11263	11083
40°	11987	10606	10547
45°	11363	9982	10056
50°	10676	9326	9585
55°	9898	8700	9122
60°	9143	8087	8565
65°	8444	7428	7868
70°	7696	6666	6970
75°	6918	5704	5768
80°	5977	4617	4468
85°	4725	3586	3268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.2
10°-20°	377.4	9.3
20°-30°	566.8	13.9
30°-40°	671.4	16.5
40°-50°	681.7	16.7
50°-60°	611.9	15.0
60°-70°	480.6	11.8
70°-80°	304.5	7.5
80°-90°	134.6	3.3
90°-100°	51.8	1.3
100°-110°	29.0	0.7
110°-120°	18.7	0.5
120°-130°	10.6	0.3
130°-140°	4.5	0.1
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1075.6	26.4
0°-40°	1747.0	42.9
0°-60°	3040.6	74.6
0°-90°	3960.4	97.2
90°-120°	99.4	2.4
90°-150°	115.6	2.8
90°-180°	116.0	2.8
0°-180°	4075.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1373	1378	1384	1388	1388	130
15°	1315	1326	1344	1352	1350	371
25°	1207	1228	1240	1234	1230	556
35°	1050	1073	1076	1080	1084	656
45°	840	865	883	907	918	648
55°	612	639	684	731	747	550
65°	405	427	494	540	552	402
75°	225	250	299	324	324	239
85°	76	103	131	137	133	77
90°	32	58	80	83	82	20
95°	28	35	51	54	52	23
105°	24	20	28	32	31	26
115°	15	12	19	24	25	15
125°	7	4	11	17	19	7
135°	3	3	4	9	11	2
145°	1	1	0	3	4	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°	1386.3	1386.3	1386.3	1386.3	1386.3
2.5°	1377.0	1381.0	1387.7	1389.0	1389.0
5°	1373.0	1378.3	1383.7	1387.7	1387.7
7.5°	1363.6	1369.0	1378.3	1382.3	1382.3
10°	1351.5	1358.2	1369.0	1377.0	1378.3
12.5°	1335.4	1343.5	1358.2	1366.2	1366.2
15°	1315.4	1326.1	1343.5	1351.5	1350.2
17.5°	1293.9	1306.0	1324.7	1328.8	1324.7
20°	1268.5	1283.2	1302.0	1304.6	1299.3
22.5°	1240.3	1257.8	1273.8	1269.8	1264.5
25°	1206.9	1228.3	1240.3	1233.7	1229.6
27.5°	1174.7	1194.8	1204.2	1196.2	1194.8
30°	1135.8	1158.6	1164.0	1158.6	1157.3
32.5°	1093.0	1119.8	1119.8	1119.8	1121.1
35°	1050.2	1073.0	1075.6	1079.6	1083.6
37.5°	1003.3	1026.0	1028.7	1039.4	1043.4
40°	948.3	973.8	979.1	995.2	1000.6
42.5°	897.4	920.2	932.2	952.4	959.0
45°	839.8	865.3	882.7	906.8	917.5
47.5°	783.6	809.0	831.8	862.6	873.4
50°	727.4	752.8	782.2	818.4	833.1
52.5°	672.4	693.8	732.7	775.5	791.6
55°	612.2	639.0	684.5	731.4	747.4
57.5°	561.3	582.6	636.2	687.1	707.3
60°	503.7	527.8	589.4	640.2	653.7
62.5°	454.1	478.2	541.1	592.1	605.4
65°	404.6	427.3	494.2	539.8	551.8
67.5°	357.7	383.1	444.7	490.2	495.6
70°	310.7	337.5	397.8	436.6	442.0
72.5°	267.9	293.4	348.2	380.4	381.8
75°	225.0	250.5	298.7	324.2	324.2
77.5°	183.5	210.3	251.8	271.9	269.2
80°	146.0	170.1	206.2	217.0	217.0
82.5°	108.5	133.9	164.7	175.4	170.1
85°	76.3	103.1	131.3	136.6	132.6
87.5°	49.6	77.7	101.8	105.8	103.1
90°	32.2	57.6	80.4	83.0	81.7
92.5°	29.4	44.2	63.0	65.6	64.3
95°	28.2	34.8	50.9	53.6	52.2
97.5°	28.2	29.4	42.9	45.5	44.2
100°	26.8	25.4	36.2	38.9	37.5
102.5°	26.8	22.8	32.2	34.8	33.5
105°	24.1	20.1	28.2	32.2	30.8
107.5°	22.8	17.4	25.4	29.4	29.4
110°	20.1	14.7	22.8	28.2	28.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.4	13.4	21.4	26.8	26.8
115°	14.7	12.1	18.7	24.1	25.4
117.5°	12.1	9.4	16.1	22.8	24.1
120°	10.7	8.0	14.7	21.4	22.8
122.5°	9.4	6.7	13.4	18.7	21.4
125°	6.7	4.0	10.7	17.4	18.7
127.5°	6.7	4.0	9.4	14.7	17.4
130°	5.4	4.0	8.0	13.4	14.7
132.5°	4.0	2.6	5.4	10.7	13.4
135°	2.6	2.6	4.0	9.4	10.7
137.5°	2.6	1.4	2.6	8.0	9.4
140°	1.4	1.4	1.4	5.4	6.7
142.5°	1.4	1.4	0.0	4.0	5.4
145°	1.4	1.4	0.0	2.6	4.0
147.5°	1.4	1.4	0.0	1.4	2.6
150°	1.4	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)