

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: P397218

Luminaire Tested: **2VRVT2-LD5-5-DR100-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
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-DR100-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.4 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

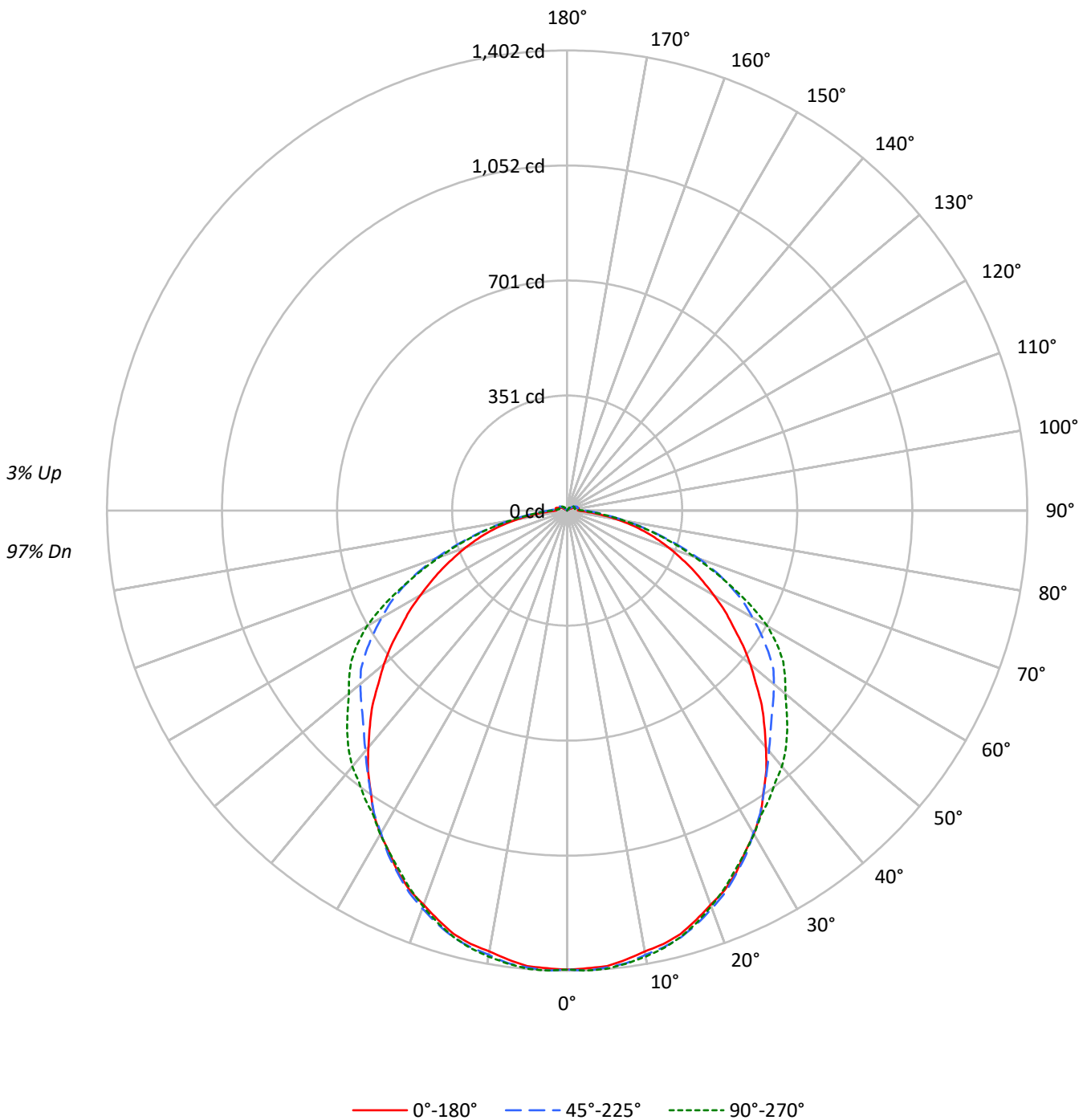
Input Watts (W): 92.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	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	70	64	59	67	62	58	55
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°	14451	14451	14451
5°	14350	14131	14122
10°	14110	13713	13673
15°	13987	13343	13194
20°	13655	12822	12585
25°	13383	12245	11936
30°	12971	11583	11393
35°	12465	10941	10974
40°	11904	10360	10732
45°	11347	9967	10395
50°	10695	9807	9987
55°	9984	9500	9809
60°	9361	8950	9232
65°	8751	8295	7965
70°	8129	7138	6507
75°	7456	5603	5099
80°	6308	4019	3611
85°	4645	2707	2278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	3.2
10°-20°	377.7	9.2
20°-30°	560.6	13.6
30°-40°	660.3	16.0
40°-50°	685.4	16.6
50°-60°	643.3	15.6
60°-70°	517.2	12.6
70°-80°	306.9	7.5
80°-90°	112.5	2.7
90°-100°	42.1	1.0
100°-110°	32.1	0.8
110°-120°	24.5	0.6
120°-130°	14.8	0.4
130°-140°	7.0	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°	1070.9	26.0
0°-40°	1731.2	42.0
0°-60°	3059.9	74.3
0°-90°	3996.5	97.0
90°-120°	98.8	2.4
90°-150°	121.9	3.0
90°-180°	122.0	3.0
0°-180°	4118.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1393	1393	1397	1401	1401	132
15°	1336	1337	1345	1345	1344	376
25°	1218	1218	1220	1216	1210	559
35°	1044	1052	1045	1060	1073	654
45°	839	837	881	940	948	645
55°	618	639	747	782	804	556
65°	419	493	552	568	559	416
75°	242	308	293	292	287	255
85°	75	103	99	96	92	78
90°	34	56	56	52	48	20
95°	35	40	39	35	31	29
105°	32	32	34	28	24	34
115°	19	21	29	27	24	19
125°	8	9	19	21	21	8
135°	4	3	9	13	15	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°	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1395.8	1398.5	1402.5	1402.5	1402.5
5°	1393.1	1393.1	1397.1	1401.1	1401.1
7.5°	1379.7	1382.4	1390.4	1390.4	1391.8
10°	1363.7	1371.7	1374.3	1379.7	1379.7
12.5°	1353.0	1355.6	1362.3	1365.0	1365.0
15°	1335.5	1336.9	1344.9	1344.9	1343.5
17.5°	1307.4	1311.4	1319.4	1319.4	1315.4
20°	1277.9	1287.3	1290.0	1285.9	1283.3
22.5°	1252.5	1255.1	1259.1	1252.5	1248.5
25°	1217.6	1217.6	1220.3	1216.3	1209.6
27.5°	1173.4	1182.8	1181.4	1178.8	1173.4
30°	1137.3	1142.6	1134.6	1135.9	1138.6
32.5°	1097.0	1099.8	1094.4	1097.0	1099.8
35°	1043.5	1051.5	1044.8	1059.6	1073.0
37.5°	996.6	1002.0	999.3	1028.7	1042.2
40°	941.7	947.0	956.4	999.3	1018.1
42.5°	889.4	890.8	916.2	971.1	985.9
45°	838.6	837.2	881.4	940.3	948.4
47.5°	779.6	783.6	851.9	902.9	906.9
50°	728.7	735.4	822.5	855.9	868.0
52.5°	675.1	685.8	791.7	817.1	837.2
55°	617.5	639.0	747.4	782.3	803.7
57.5°	570.6	597.4	700.6	742.1	758.2
60°	515.7	561.3	652.3	692.6	704.6
62.5°	466.2	526.4	606.8	633.6	635.0
65°	419.3	493.0	551.9	568.0	558.6
67.5°	372.4	455.4	491.6	493.0	483.6
70°	328.2	411.2	426.0	420.6	412.6
72.5°	285.3	360.3	359.0	352.3	349.6
75°	242.5	308.1	293.4	292.0	286.6
77.5°	198.2	253.2	234.4	233.0	229.0
80°	154.1	194.2	179.5	180.8	175.4
82.5°	111.2	147.4	133.9	135.3	129.9
85°	75.0	103.1	99.1	96.5	92.4
87.5°	44.2	72.3	72.3	71.0	65.6
90°	33.5	56.2	56.2	52.2	48.2
92.5°	32.2	45.5	45.5	41.5	37.5
95°	34.8	40.2	38.9	34.8	30.8
97.5°	36.2	37.5	36.2	30.8	28.2
100°	36.2	34.8	34.8	28.2	25.4
102.5°	34.8	33.5	33.5	28.2	24.1
105°	32.2	32.2	33.5	28.2	24.1
107.5°	29.4	30.8	32.2	28.2	24.1
110°	25.4	28.2	32.2	28.2	24.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.8	25.4	30.8	26.8	24.1
115°	18.7	21.4	29.4	26.8	24.1
117.5°	16.1	18.7	26.8	25.4	24.1
120°	13.4	14.7	25.4	25.4	22.8
122.5°	10.7	12.1	22.8	24.1	22.8
125°	8.0	9.4	18.7	21.4	21.4
127.5°	6.7	6.7	16.1	20.1	20.1
130°	5.4	5.4	13.4	18.7	18.7
132.5°	4.0	4.0	10.7	16.1	17.4
135°	4.0	2.6	9.4	13.4	14.7
137.5°	2.6	2.6	6.7	12.1	13.4
140°	2.6	2.6	5.4	9.4	10.7
142.5°	2.6	1.4	2.6	8.0	9.4
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)