

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: P397227

Luminaire Tested: **2VRVT3-LD5-2-G-UNV-LG52-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT3-LD5-2-G-UNV-LG52-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

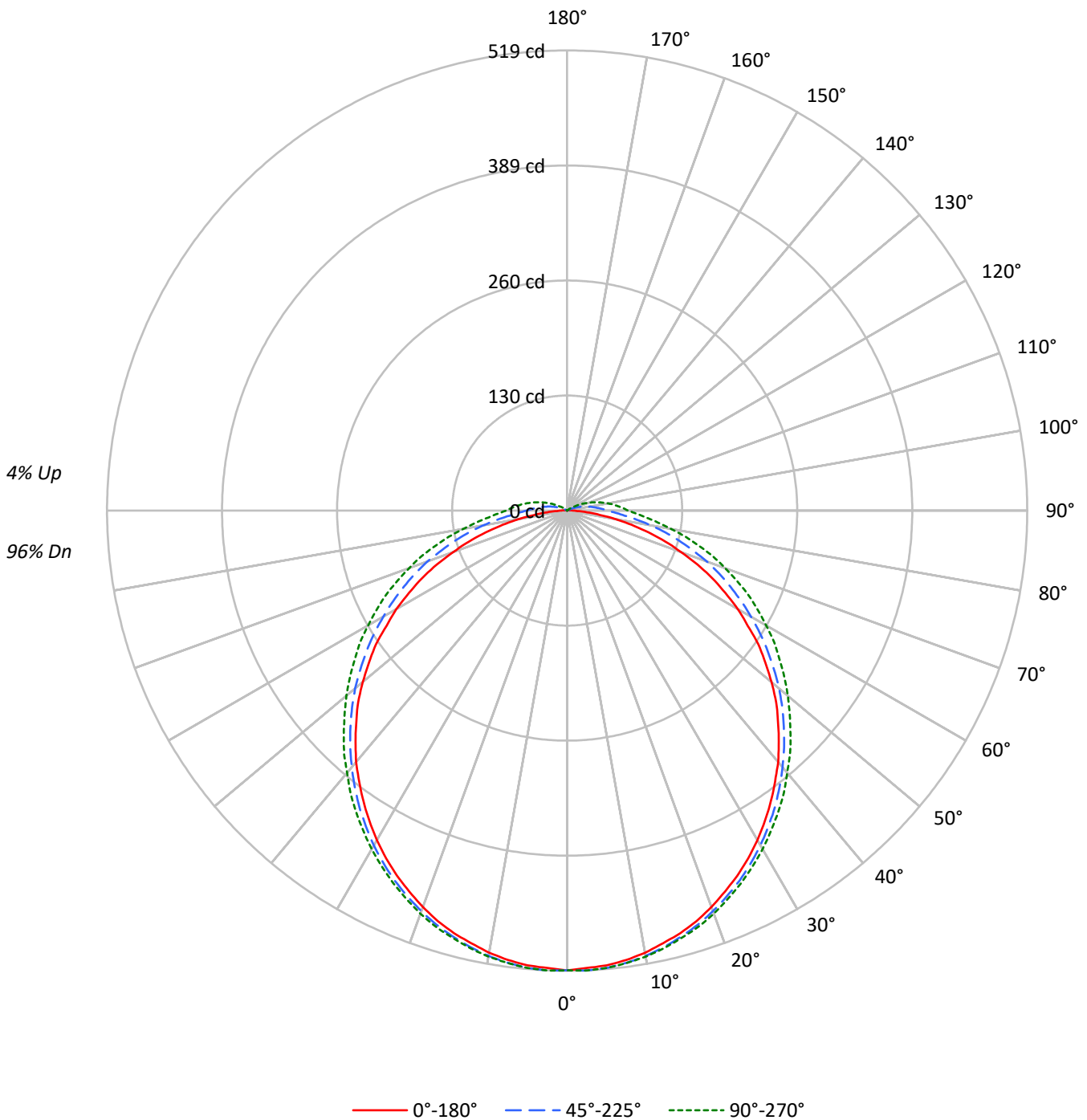
Lumens per Lamp: N/A
Luminaire Lumens: 1638.4 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 37.4
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	96
1	107	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6697	6697	6697
5°	6384	5656	5508
10°	6082	4859	4650
15°	5790	4230	3996
20°	5497	3719	3482
25°	5208	3287	3053
30°	4922	2913	2692
35°	4629	2582	2380
40°	4344	2282	2101
45°	4039	2013	1859
50°	3730	1769	1641
55°	3400	1536	1440
60°	3022	1316	1256
65°	2606	1112	1084
70°	2121	919	909
75°	1616	725	743
80°	1057	543	582
85°	482	379	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.0
10°-20°	140.2	8.6
20°-30°	211.8	12.9
30°-40°	255.3	15.6
40°-50°	267.1	16.3
50°-60°	247.6	15.1
60°-70°	200.9	12.3
70°-80°	135.0	8.2
80°-90°	69.2	4.2
90°-100°	35.8	2.2
100°-110°	18.6	1.1
110°-120°	6.9	0.4
120°-130°	0.9	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	401.1	24.5
0°-40°	656.4	40.1
0°-60°	1171.1	71.5
0°-90°	1576.2	96.2
90°-120°	61.2	3.7
90°-150°	62.2	3.8
90°-180°	62.0	3.8
0°-180°	1638.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	515	516	518	518	518	49
15°	493	495	497	499	499	139
25°	454	456	460	463	464	209
35°	401	403	409	413	415	251
45°	336	339	346	353	356	260
55°	263	266	276	288	292	234
65°	180	187	203	220	226	178
75°	95	108	130	147	154	101
85°	23	42	65	83	89	25
90°	6	23	46	63	69	4
95°	4	13	34	51	57	3
105°	2	3	17	31	36	2
115°	1	1	4	13	17	1
125°	0	0	0	1	3	0
135°	0	0	0	0	0	0
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.5	518.5	518.5	518.5	518.5
2.5°	516.4	517.2	519.3	519.7	519.3
5°	514.8	515.6	517.7	518.1	517.7
7.5°	511.2	512.4	514.4	515.2	514.8
10°	506.3	507.5	510.0	510.8	510.8
12.5°	499.8	501.5	504.3	505.1	505.5
15°	493.4	495.0	497.4	499.0	499.0
17.5°	485.4	486.6	489.8	491.8	492.2
20°	475.7	477.3	480.9	483.4	483.8
22.5°	465.1	467.2	470.8	473.6	474.0
25°	454.2	455.8	460.3	463.1	463.9
27.5°	442.2	443.8	448.6	451.4	452.6
30°	429.2	431.2	436.1	440.1	441.0
32.5°	415.1	417.5	422.3	426.4	428.0
35°	400.6	403.0	408.6	412.6	415.1
37.5°	385.2	387.6	393.3	399.0	401.4
40°	370.2	372.3	377.9	383.6	386.0
42.5°	353.3	356.2	362.2	369.0	372.3
45°	336.3	338.8	345.6	352.9	356.2
47.5°	319.8	322.2	329.0	336.7	340.4
50°	300.8	303.2	312.1	321.0	325.0
52.5°	281.8	284.6	293.9	304.9	308.9
55°	263.3	266.1	276.2	287.9	292.3
57.5°	241.4	247.1	258.0	271.0	277.0
60°	222.5	227.0	239.4	253.6	259.2
62.5°	201.1	206.7	221.3	236.6	242.2
65°	180.5	187.0	203.1	219.7	225.7
67.5°	159.1	165.9	185.4	201.9	207.1
70°	136.5	146.6	167.2	183.3	189.4
72.5°	116.3	126.8	148.2	165.1	172.8
75°	95.3	107.8	130.4	147.4	153.8
77.5°	74.3	89.2	113.4	129.6	136.9
80°	56.2	71.8	95.7	112.6	118.7
82.5°	37.1	55.8	79.5	96.9	103.4
85°	22.6	41.6	65.0	82.8	88.8
87.5°	11.3	30.3	54.1	71.0	77.9
90°	6.5	23.0	45.6	62.6	68.6
92.5°	5.3	17.8	40.0	56.6	63.0
95°	4.0	13.4	34.3	51.3	57.4
97.5°	3.2	9.7	29.8	46.0	52.1
100°	2.8	6.9	25.0	40.8	46.8
102.5°	2.4	4.5	21.0	35.5	41.2
105°	2.0	2.8	17.0	30.7	35.9
107.5°	1.6	1.6	13.0	25.8	30.7
110°	1.2	1.2	9.3	21.0	26.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	6.5	17.0	21.0
115°	0.8	0.8	4.0	13.0	16.6
117.5°	0.8	0.8	2.0	9.3	12.5
120°	0.4	0.4	0.8	6.1	8.9
122.5°	0.4	0.4	0.4	3.2	5.7
125°	0.4	0.0	0.0	1.2	2.8
127.5°	0.0	0.0	0.0	0.0	0.8
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.4	0.0	0.0	0.0	0.0
135°	0.4	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)