

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: P397230

Luminaire Tested: **2VRVT3-LD5-3-G-UNV-LG52-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397230
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-LD5-3-G-UNV-LG52-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

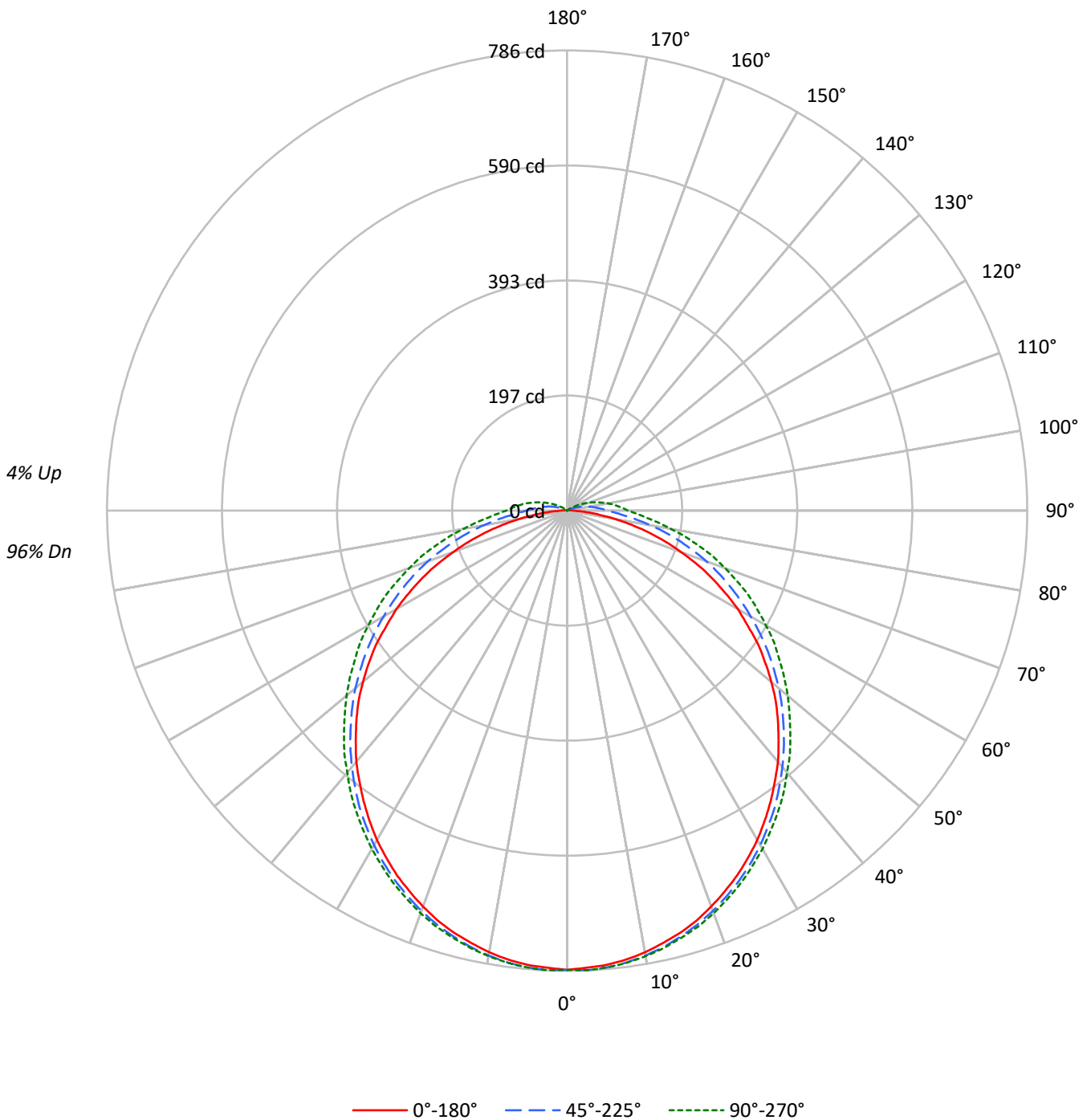
Lumens per Lamp: N/A
Luminaire Lumens: 2479.2 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 56.9
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°	10133	10133	10133
5°	9660	8557	8334
10°	9204	7352	7036
15°	8761	6401	6048
20°	8317	5628	5268
25°	7882	4974	4620
30°	7448	4407	4073
35°	7003	3907	3601
40°	6573	3453	3179
45°	6114	3046	2813
50°	5644	2677	2483
55°	5145	2323	2179
60°	4572	1991	1901
65°	3943	1683	1641
70°	3208	1391	1376
75°	2445	1098	1125
80°	1599	821	880
85°	729	574	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.0
10°-20°	212.2	8.6
20°-30°	320.5	12.9
30°-40°	386.3	15.6
40°-50°	404.2	16.3
50°-60°	374.7	15.1
60°-70°	304.0	12.3
70°-80°	204.3	8.2
80°-90°	104.7	4.2
90°-100°	54.1	2.2
100°-110°	28.1	1.1
110°-120°	10.4	0.4
120°-130°	1.4	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°	606.9	24.5
0°-40°	993.3	40.1
0°-60°	1772.1	71.5
0°-90°	2385.1	96.2
90°-120°	92.6	3.7
90°-150°	94.0	3.8
90°-180°	94.0	3.8
0°-180°	2479.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	779	780	783	784	783	74
15°	747	749	753	755	755	211
25°	687	690	697	701	702	317
35°	606	610	618	624	628	379
45°	509	513	523	534	539	393
55°	398	403	418	436	442	355
65°	273	283	307	332	342	270
75°	144	163	197	223	233	152
85°	34	63	98	125	134	38
90°	10	35	69	95	104	6
95°	6	20	52	78	87	5
105°	3	4	26	46	54	3
115°	1	1	6	20	25	1
125°	1	0	0	2	4	0
135°	1	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°	784.5	784.5	784.5	784.5	784.5
2.5°	781.4	782.6	785.8	786.3	785.8
5°	779.0	780.2	783.3	783.9	783.3
7.5°	773.5	775.4	778.4	779.6	779.0
10°	766.2	768.0	771.7	772.9	772.9
12.5°	756.4	758.9	763.1	764.3	765.0
15°	746.6	749.0	752.7	755.2	755.2
17.5°	734.4	736.2	741.1	744.2	744.8
20°	719.8	722.2	727.7	731.4	732.0
22.5°	703.8	706.9	712.4	716.7	717.3
25°	687.4	689.8	696.6	700.8	702.0
27.5°	669.0	671.4	678.8	683.1	684.9
30°	649.5	652.6	659.8	666.0	667.2
32.5°	628.1	631.8	639.1	645.2	647.7
35°	606.1	609.8	618.3	624.4	628.1
37.5°	582.9	586.6	595.1	603.7	607.4
40°	560.2	563.4	571.9	580.4	584.1
42.5°	534.6	538.9	548.1	558.5	563.4
45°	509.0	512.6	523.0	534.0	538.9
47.5°	483.9	487.6	497.9	509.6	515.0
50°	455.2	458.9	472.3	485.8	491.8
52.5°	426.5	430.7	444.8	461.3	467.4
55°	398.4	402.6	417.9	435.6	442.3
57.5°	365.4	373.9	390.4	410.0	419.1
60°	336.6	343.4	362.3	383.7	392.2
62.5°	304.2	312.8	334.8	358.0	366.6
65°	273.1	282.9	307.4	332.4	341.5
67.5°	240.7	251.1	280.5	305.5	313.4
70°	206.5	221.8	253.0	277.4	286.6
72.5°	176.0	191.8	224.2	249.9	261.5
75°	144.2	163.1	197.4	223.0	232.8
77.5°	112.4	135.0	171.7	196.2	207.1
80°	85.0	108.7	144.8	170.5	179.6
82.5°	56.2	84.3	120.4	146.6	156.4
85°	34.2	63.0	98.4	125.3	134.4
87.5°	17.1	45.8	81.8	107.5	117.9
90°	9.8	34.8	69.0	94.7	103.8
92.5°	7.9	26.9	60.5	85.5	95.3
95°	6.1	20.2	51.9	77.6	86.8
97.5°	4.9	14.6	45.2	69.7	78.8
100°	4.2	10.4	37.9	61.7	70.9
102.5°	3.7	6.7	31.8	53.8	62.3
105°	3.0	4.2	25.7	46.4	54.4
107.5°	2.5	2.5	19.5	39.1	46.4
110°	1.8	1.8	14.1	31.8	39.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	9.8	25.7	31.8
115°	1.2	1.2	6.1	19.5	25.0
117.5°	1.2	1.2	3.0	14.1	19.0
120°	0.6	0.6	1.2	9.2	13.4
122.5°	0.6	0.6	0.6	4.9	8.6
125°	0.6	0.0	0.0	1.8	4.2
127.5°	0.0	0.0	0.0	0.0	1.2
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.6	0.0	0.0	0.0	0.0
135°	0.6	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)