

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: P397229

Luminaire Tested: **2VRVT3-LD5-3-G-UNV-LA59-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397229
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-LA59-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

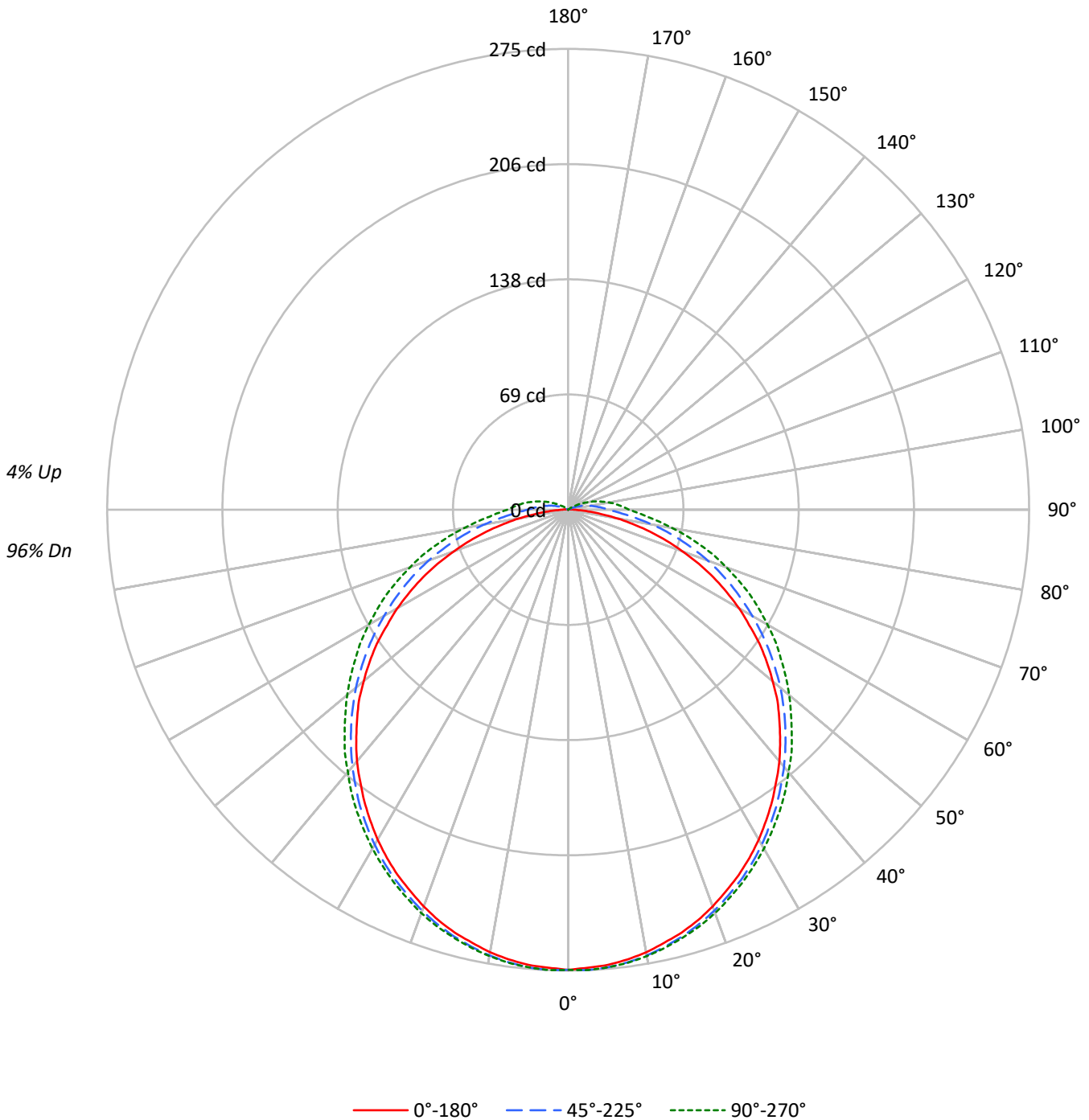
Lumens per Lamp: N/A
Luminaire Lumens: 867.7 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 36.6
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°	3547	3547	3547
5°	3382	2994	2916
10°	3222	2573	2462
15°	3066	2241	2117
20°	2911	1970	1844
25°	2759	1741	1617
30°	2606	1542	1425
35°	2451	1367	1260
40°	2301	1209	1113
45°	2139	1067	984
50°	1975	937	869
55°	1800	813	763
60°	1600	697	665
65°	1380	589	574
70°	1123	487	481
75°	856	384	394
80°	559	288	308
85°	256	201	236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	3.0
10°-20°	74.3	8.6
20°-30°	112.2	12.9
30°-40°	135.2	15.6
40°-50°	141.5	16.3
50°-60°	131.1	15.1
60°-70°	106.4	12.3
70°-80°	71.5	8.2
80°-90°	36.6	4.2
90°-100°	19.0	2.2
100°-110°	9.8	1.1
110°-120°	3.6	0.4
120°-130°	0.5	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°	212.4	24.5
0°-40°	347.6	40.1
0°-60°	620.2	71.5
0°-90°	834.8	96.2
90°-120°	32.4	3.7
90°-150°	32.9	3.8
90°-180°	33.0	3.8
0°-180°	867.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	273	273	274	274	274	26
15°	261	262	264	264	264	74
25°	241	241	244	245	246	111
35°	212	213	216	218	220	133
45°	178	179	183	187	189	138
55°	139	141	146	152	155	124
65°	96	99	108	116	120	94
75°	50	57	69	78	82	53
85°	12	22	34	44	47	13
90°	3	12	24	33	36	2
95°	2	7	18	27	30	2
105°	1	2	9	16	19	1
115°	0	0	2	7	9	0
125°	0	0	0	1	2	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°	274.6	274.6	274.6	274.6	274.6
2.5°	273.5	273.9	275.0	275.2	275.0
5°	272.7	273.1	274.1	274.4	274.1
7.5°	270.7	271.4	272.4	272.9	272.7
10°	268.2	268.8	270.1	270.5	270.5
12.5°	264.7	265.6	267.1	267.5	267.7
15°	261.3	262.2	263.5	264.3	264.3
17.5°	257.0	257.7	259.4	260.5	260.7
20°	251.9	252.8	254.7	256.0	256.2
22.5°	246.3	247.4	249.3	250.9	251.0
25°	240.6	241.4	243.8	245.3	245.7
27.5°	234.2	235.0	237.6	239.1	239.7
30°	227.3	228.4	230.9	233.1	233.5
32.5°	219.8	221.1	223.7	225.8	226.7
35°	212.1	213.4	216.4	218.5	219.8
37.5°	204.0	205.3	208.3	211.3	212.6
40°	196.1	197.2	200.2	203.1	204.4
42.5°	187.1	188.6	191.8	195.5	197.2
45°	178.1	179.4	183.1	186.9	188.6
47.5°	169.4	170.7	174.3	178.4	180.3
50°	159.3	160.6	165.3	170.0	172.1
52.5°	149.3	150.8	155.7	161.4	163.6
55°	139.4	140.9	146.3	152.5	154.8
57.5°	127.9	130.9	136.6	143.5	146.7
60°	117.8	120.2	126.8	134.3	137.3
62.5°	106.5	109.5	117.2	125.3	128.3
65°	95.6	99.0	107.6	116.3	119.5
67.5°	84.3	87.9	98.2	106.9	109.7
70°	72.3	77.6	88.5	97.1	100.3
72.5°	61.6	67.1	78.5	87.5	91.5
75°	50.5	57.1	69.1	78.1	81.5
77.5°	39.3	47.3	60.1	68.7	72.5
80°	29.7	38.1	50.7	59.7	62.9
82.5°	19.7	29.5	42.1	51.3	54.7
85°	12.0	22.0	34.4	43.8	47.0
87.5°	6.0	16.0	28.6	37.6	41.3
90°	3.4	12.2	24.2	33.2	36.3
92.5°	2.8	9.4	21.2	29.9	33.3
95°	2.1	7.1	18.2	27.2	30.4
97.5°	1.7	5.1	15.8	24.4	27.6
100°	1.5	3.6	13.3	21.6	24.8
102.5°	1.3	2.4	11.1	18.8	21.8
105°	1.1	1.5	9.0	16.2	19.0
107.5°	0.9	0.9	6.8	13.7	16.2
110°	0.6	0.6	4.9	11.1	13.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	3.4	9.0	11.1
115°	0.4	0.4	2.1	6.8	8.8
117.5°	0.4	0.4	1.1	4.9	6.6
120°	0.2	0.2	0.4	3.2	4.7
122.5°	0.2	0.2	0.2	1.7	3.0
125°	0.2	0.0	0.0	0.6	1.5
127.5°	0.0	0.0	0.0	0.0	0.4
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.2	0.0	0.0	0.0	0.0
135°	0.2	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)