

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: P397217

Luminaire Tested: **2VRVT2-LD5-5-DR100-UNV-LA59-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397217
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-LA59-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1441.5 lumens
Efficiency: N/A
Efficacy: 24.1 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

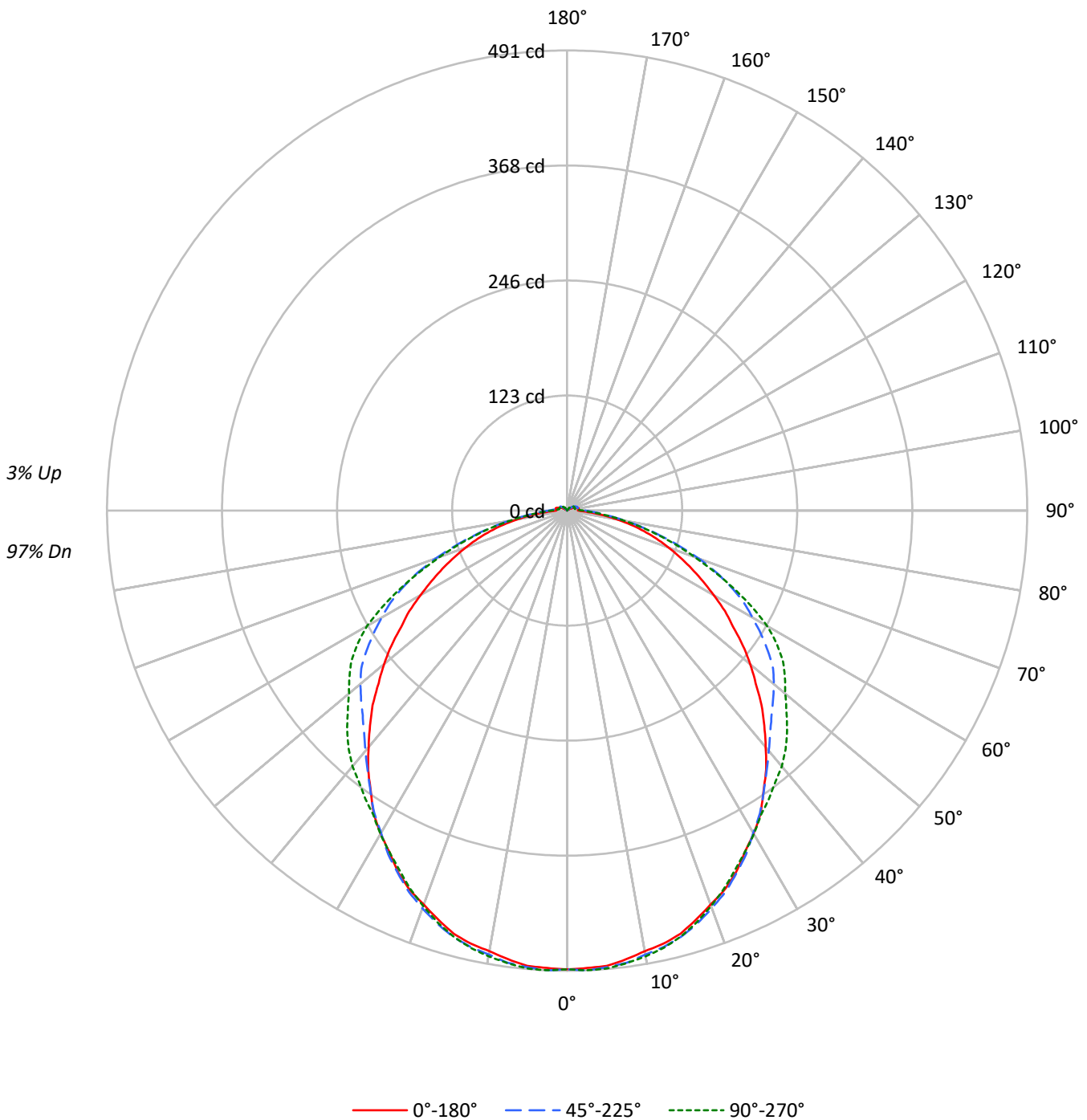
Input Watts (W): 59.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5058	5058	5058
5°	5023	4946	4943
10°	4939	4800	4786
15°	4895	4670	4618
20°	4780	4488	4404
25°	4685	4286	4178
30°	4539	4054	3987
35°	4363	3829	3840
40°	4166	3626	3756
45°	3971	3489	3638
50°	3744	3433	3495
55°	3494	3325	3433
60°	3276	3132	3231
65°	3062	2904	2788
70°	2846	2498	2277
75°	2610	1961	1785
80°	2206	1406	1264
85°	1629	948	796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	3.2
10°-20°	132.2	9.2
20°-30°	196.2	13.6
30°-40°	231.1	16.0
40°-50°	239.9	16.6
50°-60°	225.1	15.6
60°-70°	181.0	12.6
70°-80°	107.4	7.5
80°-90°	39.4	2.7
90°-100°	14.8	1.0
100°-110°	11.3	0.8
110°-120°	8.6	0.6
120°-130°	5.2	0.4
130°-140°	2.4	0.2
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	374.8	26.0
0°-40°	605.9	42.0
0°-60°	1071.0	74.3
0°-90°	1398.8	97.0
90°-120°	34.6	2.4
90°-150°	42.7	3.0
90°-180°	43.0	3.0
0°-180°	1441.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	488	488	489	490	490	46
15°	467	468	471	471	470	131
25°	426	426	427	426	423	196
35°	365	368	366	371	376	229
45°	294	293	308	329	332	226
55°	216	224	262	274	281	194
65°	147	172	193	199	196	145
75°	85	108	103	102	100	89
85°	26	36	35	34	32	27
90°	12	20	20	18	17	7
95°	12	14	14	12	11	10
105°	11	11	12	10	8	12
115°	7	8	10	9	8	7
125°	3	3	7	8	8	3
135°	1	1	3	5	5	1
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°	489.5	489.5	489.5	489.5	489.5
2.5°	488.5	489.5	490.9	490.9	490.9
5°	487.6	487.6	489.0	490.4	490.4
7.5°	482.9	483.8	486.6	486.6	487.1
10°	477.3	480.1	481.0	482.9	482.9
12.5°	473.5	474.5	476.8	477.7	477.7
15°	467.4	467.9	470.7	470.7	470.2
17.5°	457.6	459.0	461.8	461.8	460.4
20°	447.3	450.5	451.5	450.1	449.1
22.5°	438.4	439.3	440.7	438.4	437.0
25°	426.2	426.2	427.1	425.7	423.4
27.5°	410.7	414.0	413.5	412.6	410.7
30°	398.0	399.9	397.1	397.6	398.5
32.5°	384.0	384.9	383.0	384.0	384.9
35°	365.2	368.0	365.7	370.9	375.5
37.5°	348.8	350.7	349.7	360.1	364.8
40°	329.6	331.5	334.7	349.7	356.3
42.5°	311.3	311.8	320.7	339.9	345.1
45°	293.5	293.0	308.5	329.1	331.9
47.5°	272.9	274.3	298.2	316.0	317.4
50°	255.1	257.4	287.9	299.6	303.8
52.5°	236.3	240.0	277.1	286.0	293.0
55°	216.1	223.6	261.6	273.8	281.3
57.5°	199.7	209.1	245.2	259.7	265.4
60°	180.5	196.4	228.3	242.4	246.6
62.5°	163.2	184.2	212.4	221.8	222.2
65°	146.7	172.5	193.2	198.8	195.5
67.5°	130.3	159.4	172.1	172.5	169.3
70°	114.9	143.9	149.1	147.2	144.4
72.5°	99.8	126.1	125.6	123.3	122.4
75°	84.9	107.8	102.7	102.2	100.3
77.5°	69.4	88.6	82.0	81.6	80.2
80°	53.9	68.0	62.8	63.3	61.4
82.5°	38.9	51.6	46.9	47.3	45.5
85°	26.3	36.1	34.7	33.8	32.3
87.5°	15.5	25.3	25.3	24.8	23.0
90°	11.7	19.7	19.7	18.3	16.9
92.5°	11.3	15.9	15.9	14.5	13.1
95°	12.2	14.1	13.6	12.2	10.8
97.5°	12.7	13.1	12.7	10.8	9.9
100°	12.7	12.2	12.2	9.9	8.9
102.5°	12.2	11.7	11.7	9.9	8.4
105°	11.3	11.3	11.7	9.9	8.4
107.5°	10.3	10.8	11.3	9.9	8.4
110°	8.9	9.9	11.3	9.9	8.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.0	8.9	10.8	9.4	8.4
115°	6.6	7.5	10.3	9.4	8.4
117.5°	5.6	6.6	9.4	8.9	8.4
120°	4.7	5.2	8.9	8.9	8.0
122.5°	3.8	4.2	8.0	8.4	8.0
125°	2.8	3.3	6.6	7.5	7.5
127.5°	2.4	2.4	5.6	7.0	7.0
130°	1.9	1.9	4.7	6.6	6.6
132.5°	1.4	1.4	3.8	5.6	6.1
135°	1.4	0.9	3.3	4.7	5.2
137.5°	0.9	0.9	2.4	4.2	4.7
140°	0.9	0.9	1.9	3.3	3.8
142.5°	0.9	0.5	0.9	2.8	3.3
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)