

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: P397335

Luminaire Tested: **8VRVT2-LD5-22-DR-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-22-DR-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17211.2 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

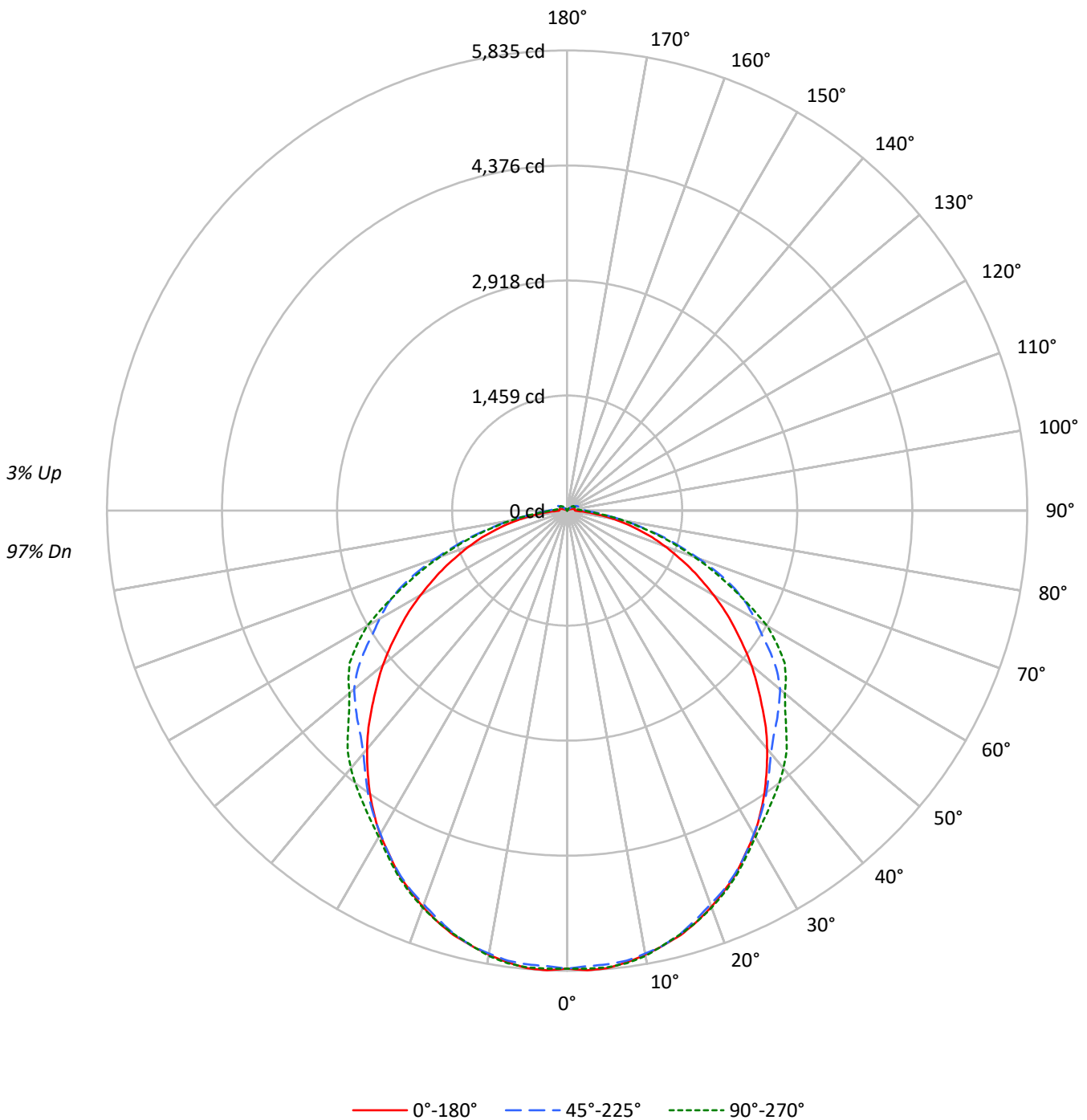
Input Watts (W): 392.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	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	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	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°	15003	15003	15003
5°	15077	14658	14649
10°	14946	14329	14207
15°	14821	13923	13648
20°	14594	13391	13136
25°	14328	12926	12568
30°	13993	12343	11949
35°	13568	11805	11550
40°	13088	11206	11242
45°	12509	10991	10761
50°	11977	10919	10364
55°	11346	10462	10267
60°	10715	9902	9590
65°	10076	9339	8178
70°	9418	7914	6761
75°	8663	6309	5237
80°	7684	4531	3735
85°	6258	3103	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	3.2
10°-20°	1570.3	9.1
20°-30°	2340.5	13.6
30°-40°	2769.0	16.1
40°-50°	2882.8	16.7
50°-60°	2711.9	15.8
60°-70°	2173.1	12.6
70°-80°	1262.5	7.3
80°-90°	445.3	2.6
90°-100°	172.0	1.0
100°-110°	130.7	0.8
110°-120°	99.5	0.6
120°-130°	60.7	0.4
130°-140°	29.6	0.2
140°-150°	9.6	0.1
150°-160°	1.5	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	4462.4	25.9
0°-40°	7231.3	42.0
0°-60°	12826.0	74.5
0°-90°	16706.9	97.1
90°-120°	402.2	2.3
90°-150°	502.1	2.9
90°-180°	504.0	2.9
0°-180°	17211.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5808	5808	5808	5808	5808	
5°	5824	5799	5776	5826	5814	552
15°	5571	5590	5554	5565	5559	1569
25°	5074	5090	5063	5101	5094	2333
35°	4362	4373	4398	4473	4517	2726
45°	3492	3528	3760	3944	3927	2699
55°	2591	2744	3152	3288	3365	2321
65°	1719	2150	2346	2326	2294	1703
75°	933	1292	1221	1194	1177	992
85°	259	395	404	389	366	276
90°	98	213	232	220	205	60
95°	100	157	176	153	140	81
105°	82	117	155	128	109	85
115°	42	75	134	119	105	43
125°	17	27	88	98	94	16
135°	6	6	42	65	69	6
145°	4	2	8	27	33	2
155°	2	2	2	2	4	1
165°	2	2	2	2	0	1
175°	4	4	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5807.5	5807.5	5807.5	5807.5	5807.5
2.5°	5834.7	5813.8	5782.5	5824.2	5813.8
5°	5824.2	5799.2	5776.2	5826.4	5813.8
7.5°	5778.2	5774.1	5757.4	5799.2	5788.7
10°	5717.6	5730.2	5703.0	5736.5	5734.3
12.5°	5646.5	5677.9	5646.5	5654.9	5642.3
15°	5571.2	5590.1	5554.5	5565.0	5558.7
17.5°	5466.6	5493.8	5435.3	5487.6	5466.6
20°	5347.4	5374.6	5314.0	5372.6	5357.9
22.5°	5213.6	5238.7	5201.0	5242.9	5232.4
25°	5073.5	5090.2	5063.0	5100.7	5094.4
27.5°	4899.9	4939.7	4904.1	4950.1	4931.3
30°	4745.2	4759.8	4734.7	4791.2	4776.6
32.5°	4559.0	4569.5	4569.5	4619.7	4644.8
35°	4362.5	4372.9	4398.0	4473.3	4517.2
37.5°	4155.4	4178.4	4201.4	4349.9	4398.0
40°	3946.3	3963.0	4019.5	4234.9	4266.2
42.5°	3728.8	3745.5	3875.2	4111.5	4121.9
45°	3492.5	3528.0	3760.2	3944.2	3927.4
47.5°	3268.7	3312.6	3643.0	3730.9	3747.6
50°	3051.2	3101.4	3525.9	3559.4	3603.3
52.5°	2817.0	2913.2	3358.6	3404.6	3496.6
55°	2591.1	2743.8	3151.6	3287.5	3364.9
57.5°	2375.7	2574.4	2925.8	3137.0	3157.8
60°	2145.7	2430.1	2745.9	2925.8	2927.8
62.5°	1926.1	2292.1	2568.1	2637.1	2607.8
65°	1719.0	2149.8	2346.5	2325.5	2294.2
67.5°	1507.8	1967.9	2072.5	2026.5	2005.5
70°	1315.4	1771.4	1767.1	1727.4	1714.9
72.5°	1131.4	1526.6	1484.8	1449.3	1438.8
75°	932.7	1292.4	1221.4	1194.2	1177.4
77.5°	752.9	1049.8	953.6	943.2	930.6
80°	575.1	801.0	736.2	738.2	725.7
82.5°	397.4	575.1	539.5	535.4	520.7
85°	259.4	395.3	403.6	389.0	366.0
87.5°	140.1	276.1	294.9	284.4	267.7
90°	98.3	213.3	232.2	219.6	205.0
92.5°	98.3	179.8	196.6	177.8	165.2
95°	100.4	156.9	175.7	152.6	140.1
97.5°	100.4	142.2	163.1	138.0	123.4
100°	96.2	133.8	159.0	131.8	117.1
102.5°	89.9	125.4	156.9	127.6	113.0
105°	81.6	117.1	154.7	127.6	108.7
107.5°	71.1	108.7	152.6	125.4	108.7
110°	60.6	98.3	148.5	125.4	106.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.3	87.8	142.2	123.4	106.6
115°	41.8	75.3	133.8	119.2	104.6
117.5°	33.4	62.7	123.4	115.0	102.5
120°	27.2	50.2	113.0	110.8	100.4
122.5°	20.9	37.7	100.4	104.6	96.2
125°	16.7	27.2	87.8	98.3	94.1
127.5°	12.6	18.8	75.3	92.0	87.8
130°	10.5	10.5	62.7	83.7	81.6
132.5°	8.4	8.4	52.3	75.3	77.4
135°	6.2	6.2	41.8	64.8	69.0
137.5°	6.2	4.2	31.4	56.5	60.6
140°	4.2	4.2	23.0	46.0	50.2
142.5°	4.2	4.2	14.6	37.7	41.8
145°	4.2	2.1	8.4	27.2	33.4
147.5°	4.2	2.1	4.2	18.8	25.1
150°	2.1	2.1	2.1	12.6	16.7
152.5°	2.1	2.1	2.1	6.2	8.4
155°	2.1	2.1	2.1	2.1	4.2
157.5°	2.1	2.1	2.1	2.1	0.0
160°	2.1	2.1	2.1	2.1	0.0
162.5°	2.1	2.1	2.1	2.1	0.0
165°	2.1	2.1	2.1	2.1	0.0
167.5°	4.2	2.1	2.1	2.1	0.0
170°	4.2	2.1	2.1	2.1	0.0
172.5°	4.2	4.2	2.1	2.1	0.0
175°	4.2	4.2	2.1	2.1	2.1
177.5°	4.2	4.2	2.1	2.1	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)