

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: P397327

Luminaire Tested: **8VRVT2-LD5-16-DR100-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-16-DR100-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.1 lumens
Efficiency: N/A
Efficacy: 8.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

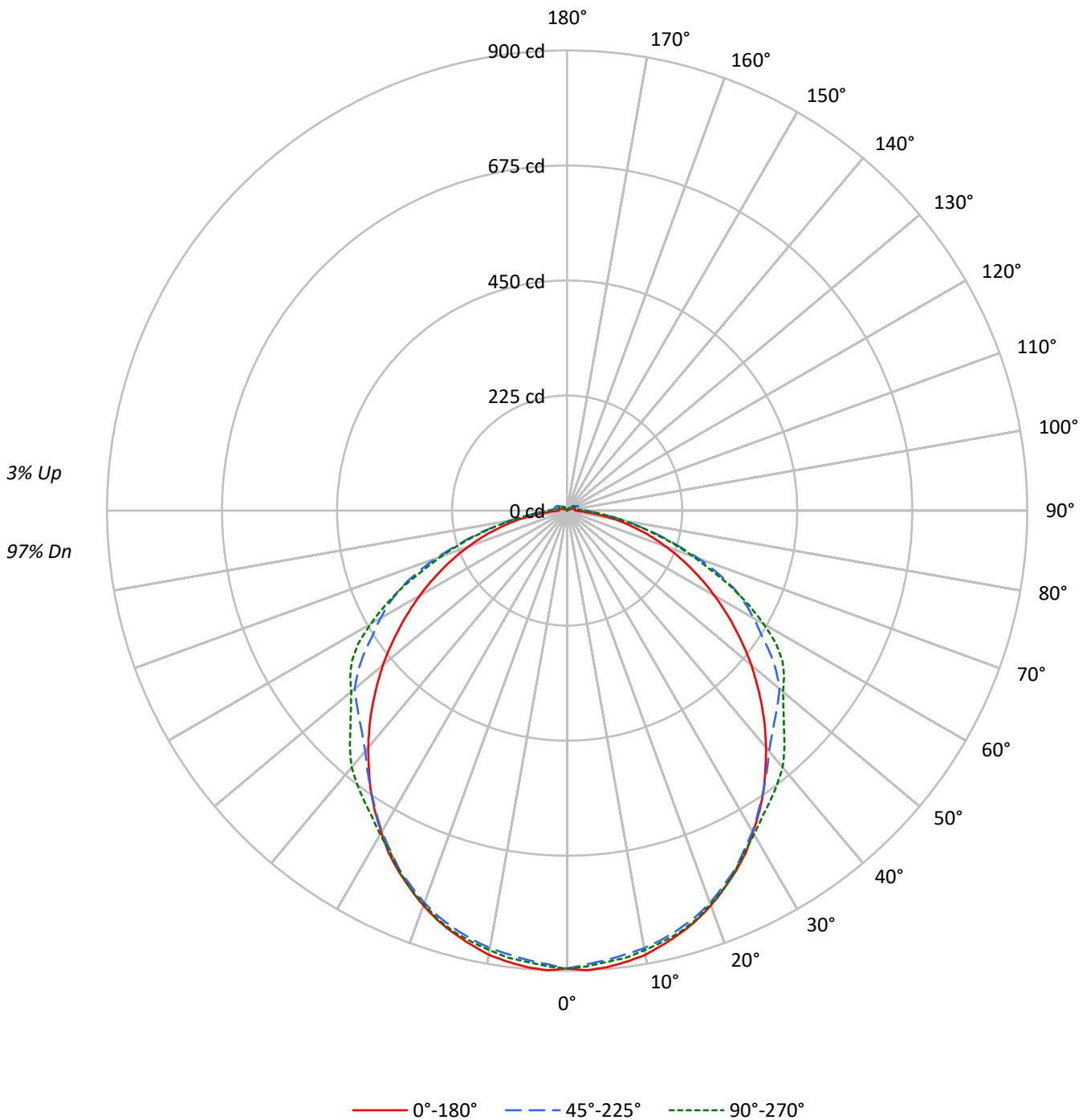
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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																			97									
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80																			80									
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66																			66									
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56																			56									
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47																			47									
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41																			41									
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36																			36									
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31																			31									
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28																			28									
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25																			25									
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			23									

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2314	2314	2314
5°	2320	2240	2233
10°	2306	2183	2164
15°	2277	2123	2095
20°	2244	2058	2008
25°	2201	1979	1918
30°	2143	1890	1830
35°	2082	1795	1771
40°	2008	1712	1728
45°	1929	1681	1642
50°	1847	1680	1585
55°	1753	1606	1569
60°	1662	1520	1453
65°	1564	1430	1265
70°	1464	1223	1032
75°	1352	956	797
80°	1197	703	563
85°	912	470	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.2
10°-20°	240.1	9.1
20°-30°	357.6	13.6
30°-40°	423.2	16.0
40°-50°	441.9	16.8
50°-60°	415.8	15.8
60°-70°	333.5	12.6
70°-80°	193.5	7.3
80°-90°	68.9	2.6
90°-100°	26.9	1.0
100°-110°	20.2	0.8
110°-120°	15.4	0.6
120°-130°	9.4	0.4
130°-140°	4.6	0.2
140°-150°	1.5	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	682.1	25.9
0°-40°	1105.3	41.9
0°-60°	1962.9	74.4
0°-90°	2558.8	97.0
90°-120°	62.5	2.4
90°-150°	78.1	3.0
90°-180°	78.0	3.0
0°-180°	2637.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	896	892	882	887	886	85
15°	856	850	847	856	853	241
25°	779	775	775	781	777	359
35°	669	668	669	684	693	418
45°	538	541	575	604	599	415
55°	400	420	484	501	514	358
65°	267	332	359	357	355	265
75°	146	200	185	181	179	154
85°	38	62	61	60	59	42
90°	15	33	37	35	33	9
95°	16	24	27	24	22	13
105°	13	18	24	20	17	13
115°	7	12	21	19	16	7
125°	3	4	14	15	14	3
135°	1	1	6	10	11	1
145°	1	1	1	4	5	0
155°	0	0	0	0	1	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°	895.7	895.7	895.7	895.7	895.7
2.5°	899.8	895.0	888.0	894.4	892.1
5°	896.3	891.5	882.5	887.0	886.1
7.5°	889.9	883.5	875.5	882.5	881.9
10°	882.2	874.9	868.8	875.5	873.3
12.5°	869.4	863.7	859.2	867.2	863.7
15°	856.0	849.6	847.0	855.7	853.4
17.5°	840.6	835.5	833.6	838.4	838.7
20°	822.1	818.2	816.6	823.0	819.2
22.5°	800.9	795.5	795.8	802.5	800.6
25°	779.2	774.7	775.3	780.8	777.3
27.5°	755.5	750.4	749.1	754.9	751.3
30°	726.7	725.7	724.8	729.6	731.5
32.5°	698.9	698.5	696.6	703.3	710.1
35°	669.4	668.5	668.8	683.5	692.8
37.5°	636.8	637.7	641.6	665.3	674.5
40°	605.4	605.7	614.1	649.6	655.7
42.5°	572.1	572.8	592.9	630.4	629.1
45°	538.5	541.4	575.0	603.5	599.3
47.5°	503.7	509.1	558.4	573.4	573.7
50°	470.4	477.4	542.4	545.9	551.0
52.5°	434.9	448.6	515.5	520.3	534.7
55°	400.3	420.2	483.8	501.4	514.2
57.5°	366.4	395.5	449.6	477.4	484.5
60°	332.8	373.4	421.4	444.2	443.5
62.5°	299.8	352.3	392.0	402.6	401.0
65°	266.9	332.2	359.4	356.8	354.9
67.5°	236.5	304.6	317.8	307.2	304.0
70°	204.5	271.4	273.0	262.4	261.8
72.5°	175.7	235.5	225.9	220.8	221.1
75°	145.6	199.7	185.0	181.4	179.2
77.5°	117.4	160.3	145.9	145.3	144.0
80°	89.6	123.5	114.2	111.4	109.4
82.5°	62.4	89.3	83.5	83.5	82.2
85°	37.8	61.8	61.1	59.8	58.9
87.5°	21.1	42.6	45.8	44.5	41.9
90°	15.4	33.0	36.8	34.6	32.6
92.5°	15.4	27.8	30.7	28.2	25.9
95°	15.7	24.3	27.2	24.0	21.8
97.5°	15.7	22.4	25.6	21.8	19.5
100°	15.0	20.8	24.6	20.5	17.9
102.5°	14.1	19.5	24.0	19.8	17.3
105°	12.8	18.2	24.0	19.5	17.0
107.5°	11.2	17.0	23.4	19.5	16.6
110°	9.6	15.4	23.0	19.2	16.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.3	13.4	22.1	18.9	16.3
115°	6.7	11.5	20.8	18.6	16.0
117.5°	5.4	9.6	19.2	17.9	15.7
120°	4.5	7.7	17.3	17.0	15.4
122.5°	3.2	5.8	15.7	16.3	15.0
125°	2.6	4.5	13.8	15.0	14.4
127.5°	2.2	2.9	11.8	14.1	13.8
130°	1.6	1.9	9.9	12.8	12.8
132.5°	1.3	1.3	8.0	11.5	11.8
135°	1.3	1.0	6.4	10.2	10.6
137.5°	1.0	1.0	5.1	8.6	9.3
140°	0.6	0.6	3.5	7.0	8.0
142.5°	0.6	0.6	2.2	5.8	6.4
145°	0.6	0.6	1.3	4.5	5.1
147.5°	0.6	0.3	0.6	3.2	3.8
150°	0.6	0.3	0.3	1.9	2.6
152.5°	0.3	0.3	0.3	1.0	1.6
155°	0.3	0.3	0.3	0.3	0.6
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)