

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: P397355

Luminaire Tested: **8VRVT2-LD5-9-DR100-UNV-LA59-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-9-DR100-UNV-LA59-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2537.1 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

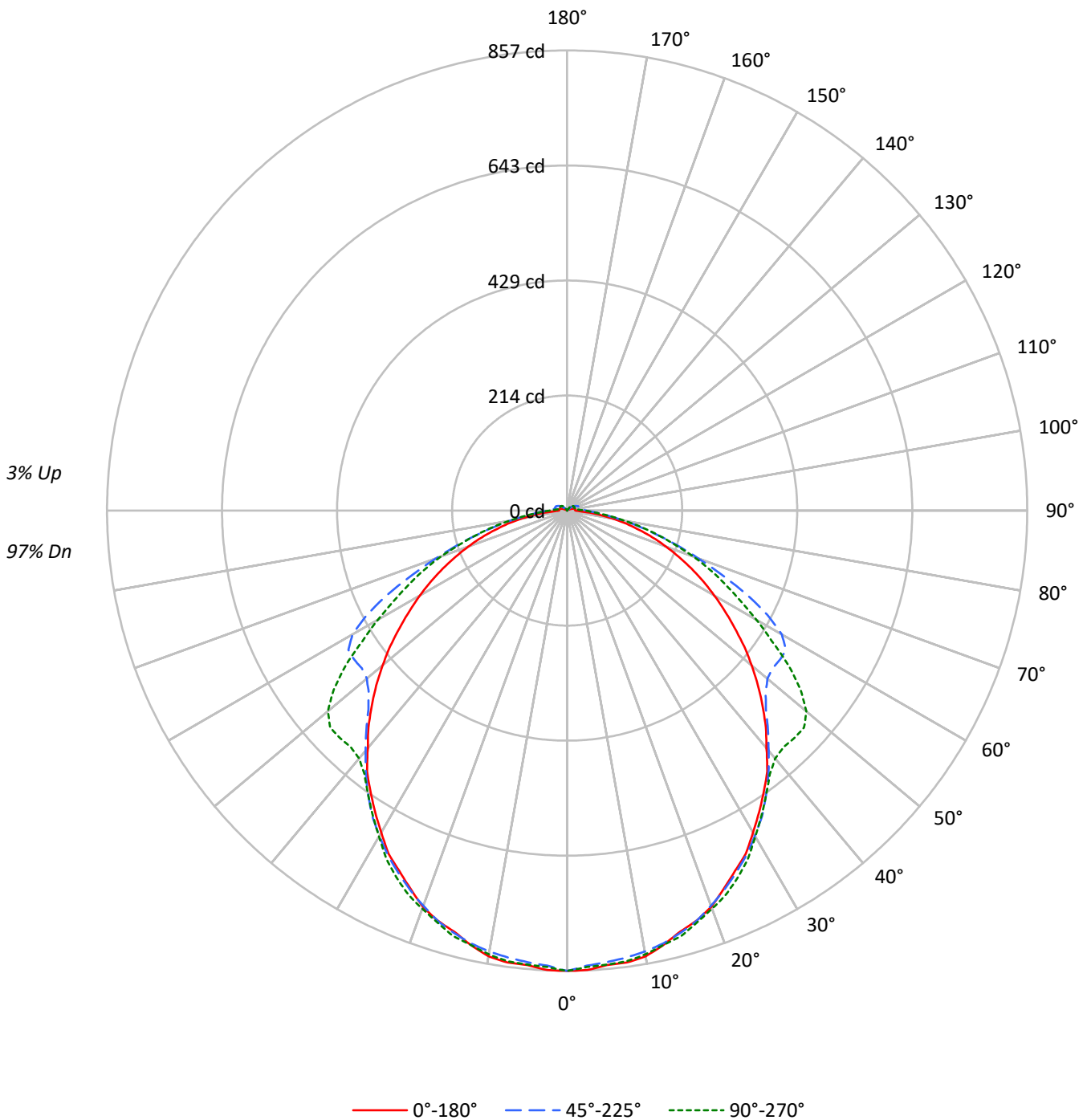
Input Watts (W): 100.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	92	95	92	89	91	88	86	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	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
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	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2215	2215	2215
5°	2199	2142	2138
10°	2204	2095	2079
15°	2160	2041	2014
20°	2143	1974	1934
25°	2091	1899	1858
30°	2042	1823	1753
35°	1986	1735	1653
40°	1916	1627	1588
45°	1843	1530	1641
50°	1761	1508	1673
55°	1666	1606	1538
60°	1581	1664	1333
65°	1496	1464	1156
70°	1403	1160	984
75°	1285	894	773
80°	1153	649	554
85°	919	462	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.2
10°-20°	230.3	9.1
20°-30°	344.2	13.6
30°-40°	403.2	15.9
40°-50°	421.2	16.6
50°-60°	409.2	16.1
60°-70°	318.4	12.5
70°-80°	187.3	7.4
80°-90°	67.7	2.7
90°-100°	25.7	1.0
100°-110°	19.1	0.8
110°-120°	14.9	0.6
120°-130°	9.5	0.4
130°-140°	4.8	0.2
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	655.2	25.8
0°-40°	1058.4	41.7
0°-60°	1888.8	74.4
0°-90°	2462.1	97.0
90°-120°	59.7	2.4
90°-150°	74.9	3.0
90°-180°	75.0	3.0
0°-180°	2537.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	850	847	844	850	849	81
15°	812	814	814	822	820	230
25°	740	746	744	753	753	342
35°	638	643	646	647	646	399
45°	515	520	524	572	599	397
55°	380	392	484	522	504	341
65°	255	302	368	324	324	253
75°	138	205	173	172	174	148
85°	38	61	60	60	59	42
90°	15	32	36	34	33	9
95°	16	23	26	22	20	13
105°	13	18	22	18	15	13
115°	7	12	20	17	15	7
125°	3	5	14	15	14	3
135°	1	1	7	11	11	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°	857.3	857.3	857.3	857.3	857.3
2.5°	856.5	852.8	848.3	853.2	850.8
5°	849.5	847.1	844.2	849.9	848.7
7.5°	849.1	843.8	839.7	847.1	846.7
10°	843.0	836.1	834.0	841.8	839.3
12.5°	828.7	825.4	825.8	834.4	828.7
15°	811.9	814.4	814.4	821.7	820.5
17.5°	800.9	800.9	801.3	806.2	804.1
20°	785.3	784.5	783.3	791.5	789.0
22.5°	762.4	765.7	764.5	775.5	773.9
25°	740.3	746.5	744.0	753.4	753.0
27.5°	720.3	723.6	723.2	730.9	730.1
30°	692.5	697.8	699.4	704.3	700.7
32.5°	665.5	670.8	675.3	675.3	673.3
35°	638.5	643.0	646.3	646.7	646.3
37.5°	612.3	612.7	616.0	616.0	619.7
40°	577.6	582.5	583.7	593.1	602.5
42.5°	547.7	550.5	553.4	577.6	596.8
45°	514.6	519.5	523.5	572.2	598.8
47.5°	482.2	486.3	501.1	574.3	598.4
50°	448.7	454.4	487.1	576.3	581.6
52.5°	415.6	423.3	482.2	558.3	547.7
55°	380.4	392.3	483.9	521.5	503.9
57.5°	348.1	365.3	483.1	473.2	452.0
60°	316.6	341.1	461.4	418.4	407.0
62.5°	285.5	320.7	420.1	369.3	363.2
65°	255.2	302.3	367.7	324.4	324.4
67.5°	225.0	287.5	310.4	284.3	288.4
70°	195.9	269.9	258.9	244.2	249.5
72.5°	166.9	243.0	213.9	208.6	209.8
75°	138.3	205.3	173.0	171.8	173.8
77.5°	113.3	163.6	135.8	139.9	140.7
80°	86.3	123.1	105.5	109.2	107.6
82.5°	60.5	88.3	79.8	82.2	81.4
85°	38.1	61.3	60.1	59.7	58.9
87.5°	21.7	41.7	44.6	44.6	43.0
90°	15.1	31.9	35.6	33.5	32.7
92.5°	15.1	27.0	29.5	26.6	24.9
95°	15.5	23.3	25.8	22.5	20.4
97.5°	15.5	21.7	24.1	20.0	18.0
100°	15.1	20.0	23.3	18.4	16.4
102.5°	13.9	19.2	22.9	18.0	15.5
105°	12.7	18.0	22.5	17.6	15.1
107.5°	11.5	16.8	22.5	17.6	14.7
110°	9.8	15.5	22.1	17.6	14.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.2	13.9	21.3	17.2	14.7
115°	6.6	12.3	20.0	17.2	14.7
117.5°	5.3	10.2	18.8	16.8	14.7
120°	4.5	8.2	17.6	16.4	14.3
122.5°	3.3	6.6	15.5	15.5	14.3
125°	2.9	4.9	13.9	15.1	13.9
127.5°	2.0	3.3	12.3	13.9	13.5
130°	1.6	2.0	10.2	13.1	13.1
132.5°	1.2	1.2	8.6	11.9	12.3
135°	1.2	0.8	6.9	10.6	11.0
137.5°	0.8	0.8	5.3	9.0	10.2
140°	0.8	0.8	4.1	7.8	8.6
142.5°	0.8	0.8	2.9	6.1	7.4
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)