

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: P397312

Luminaire Tested: **8VRVT2-LD5-12-DR100-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397312
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-LD5-12-DR100-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1984.6 lumens
Efficiency: N/A
Efficacy: 7.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

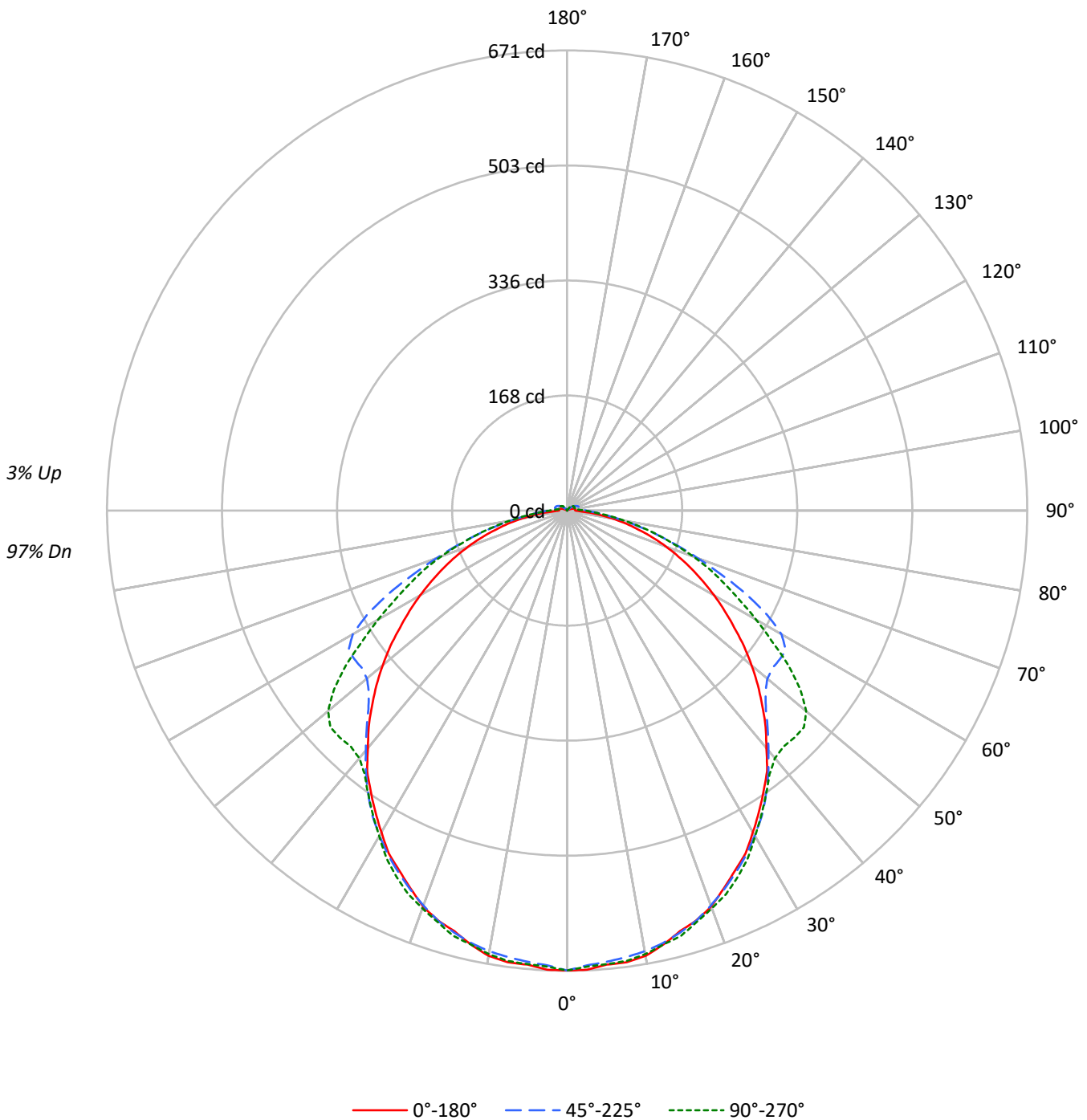
Input Watts (W): 262.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1732	1732	1732
5°	1720	1676	1673
10°	1724	1639	1627
15°	1690	1597	1576
20°	1677	1544	1513
25°	1635	1486	1453
30°	1597	1426	1371
35°	1554	1357	1293
40°	1498	1273	1242
45°	1442	1197	1283
50°	1378	1180	1309
55°	1303	1256	1203
60°	1236	1301	1043
65°	1170	1145	904
70°	1098	907	770
75°	1004	699	605
80°	902	508	433
85°	719	361	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.2
10°-20°	180.2	9.1
20°-30°	269.3	13.6
30°-40°	315.4	15.9
40°-50°	329.5	16.6
50°-60°	320.1	16.1
60°-70°	249.0	12.5
70°-80°	146.5	7.4
80°-90°	52.9	2.7
90°-100°	20.1	1.0
100°-110°	15.0	0.8
110°-120°	11.6	0.6
120°-130°	7.4	0.4
130°-140°	3.8	0.2
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	512.5	25.8
0°-40°	827.9	41.7
0°-60°	1477.5	74.4
0°-90°	1926.0	97.0
90°-120°	46.7	2.4
90°-150°	58.6	3.0
90°-180°	59.0	3.0
0°-180°	1984.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	665	663	660	665	664	63
15°	635	637	637	643	642	180
25°	579	584	582	589	589	267
35°	500	503	506	506	506	312
45°	402	406	410	448	468	311
55°	298	307	378	408	394	267
65°	200	236	288	254	254	198
75°	108	161	135	134	136	115
85°	30	48	47	47	46	32
90°	12	25	28	26	26	7
95°	12	18	20	18	16	10
105°	10	14	18	14	12	10
115°	5	10	16	13	12	5
125°	2	4	11	12	11	2
135°	1	1	5	8	9	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°	670.6	670.6	670.6	670.6	670.6
2.5°	670.0	667.1	663.6	667.4	665.5
5°	664.6	662.6	660.4	664.9	663.9
7.5°	664.2	660.1	656.9	662.6	662.3
10°	659.4	654.0	652.4	658.5	656.6
12.5°	648.2	645.7	646.0	652.7	648.2
15°	635.1	637.0	637.0	642.8	641.8
17.5°	626.5	626.5	626.8	630.6	629.0
20°	614.3	613.7	612.7	619.1	617.2
22.5°	596.4	599.0	598.0	606.6	605.4
25°	579.1	583.9	582.0	589.4	589.1
27.5°	563.5	566.0	565.7	571.8	571.1
30°	541.7	545.9	547.1	551.0	548.1
32.5°	520.6	524.7	528.3	528.3	526.7
35°	499.5	503.0	505.5	505.9	505.5
37.5°	479.0	479.3	481.9	481.9	484.7
40°	451.8	455.6	456.6	463.9	471.3
42.5°	428.4	430.7	432.9	451.8	466.8
45°	402.5	406.4	409.6	447.6	468.4
47.5°	377.2	380.4	392.0	449.2	468.1
50°	351.0	355.5	381.1	450.8	455.0
52.5°	325.1	331.2	377.2	436.8	428.4
55°	297.6	306.8	378.5	408.0	394.2
57.5°	272.3	285.7	377.9	370.2	353.6
60°	247.6	266.8	360.9	327.3	318.4
62.5°	223.3	250.8	328.6	288.9	284.1
65°	199.6	236.4	287.6	253.7	253.7
67.5°	176.0	224.9	242.8	222.4	225.6
70°	153.3	211.2	202.5	191.0	195.2
72.5°	130.5	190.1	167.3	163.2	164.1
75°	108.1	160.6	135.3	134.4	136.0
77.5°	88.6	128.0	106.2	109.4	110.1
80°	67.5	96.3	82.5	85.4	84.1
82.5°	47.4	69.1	62.4	64.3	63.7
85°	29.8	48.0	47.0	46.7	46.1
87.5°	17.0	32.6	34.9	34.9	33.6
90°	11.8	25.0	27.8	26.2	25.6
92.5°	11.8	21.1	23.0	20.8	19.5
95°	12.2	18.2	20.2	17.6	16.0
97.5°	12.2	17.0	18.9	15.7	14.1
100°	11.8	15.7	18.2	14.4	12.8
102.5°	10.9	15.0	17.9	14.1	12.2
105°	9.9	14.1	17.6	13.8	11.8
107.5°	9.0	13.1	17.6	13.8	11.5
110°	7.7	12.2	17.3	13.8	11.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	10.9	16.6	13.4	11.5
115°	5.1	9.6	15.7	13.4	11.5
117.5°	4.2	8.0	14.7	13.1	11.5
120°	3.5	6.4	13.8	12.8	11.2
122.5°	2.6	5.1	12.2	12.2	11.2
125°	2.2	3.8	10.9	11.8	10.9
127.5°	1.6	2.6	9.6	10.9	10.6
130°	1.3	1.6	8.0	10.2	10.2
132.5°	1.0	1.0	6.7	9.3	9.6
135°	1.0	0.6	5.4	8.3	8.6
137.5°	0.6	0.6	4.2	7.0	8.0
140°	0.6	0.6	3.2	6.1	6.7
142.5°	0.6	0.6	2.2	4.8	5.8
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)