

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: P397306

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
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-DR-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 7.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

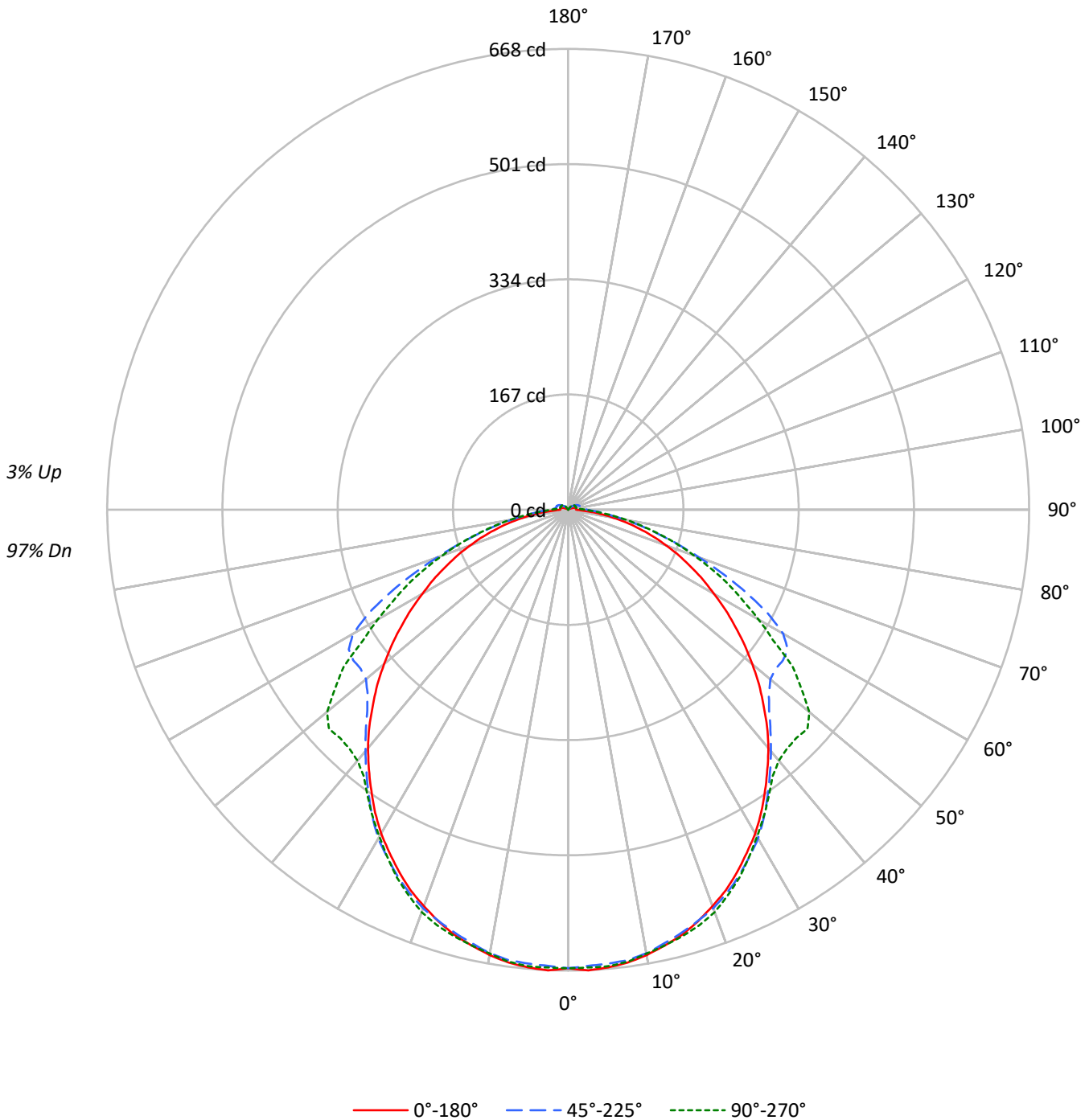
Input Watts (W): 262.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	96	92	95	92	89	91	88	86	87	85	83	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	51	62	56	50	59	54	49	47
5	75	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°	1717	1717	1717
5°	1724	1676	1674
10°	1713	1640	1619
15°	1697	1591	1571
20°	1669	1549	1522
25°	1637	1495	1450
30°	1599	1435	1369
35°	1547	1353	1295
40°	1496	1274	1251
45°	1433	1203	1282
50°	1367	1184	1312
55°	1294	1262	1212
60°	1217	1297	1044
65°	1150	1135	915
70°	1079	903	764
75°	993	693	608
80°	881	506	443
85°	726	364	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.2
10°-20°	180.2	9.1
20°-30°	269.4	13.6
30°-40°	315.6	15.9
40°-50°	330.2	16.7
50°-60°	319.4	16.1
60°-70°	248.3	12.5
70°-80°	146.5	7.4
80°-90°	52.8	2.7
90°-100°	19.7	1.0
100°-110°	14.8	0.7
110°-120°	11.4	0.6
120°-130°	7.3	0.4
130°-140°	3.7	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°	512.6	25.9
0°-40°	828.2	41.8
0°-60°	1477.9	74.5
0°-90°	1925.4	97.1
90°-120°	45.8	2.3
90°-150°	57.6	2.9
90°-180°	58.0	2.9
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	666	663	660	666	664	63
15°	638	640	635	643	640	180
25°	580	582	586	590	588	267
35°	497	504	504	507	507	311
45°	400	407	412	451	468	309
55°	295	306	380	405	397	265
65°	196	236	285	255	257	195
75°	107	160	134	136	137	114
85°	30	47	47	47	46	32
90°	12	25	27	26	24	7
95°	12	18	20	17	15	9
105°	10	14	17	14	12	10
115°	5	9	15	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°	664.6	664.6	664.6	664.6	664.6
2.5°	668.5	665.3	661.8	665.9	664.3
5°	665.9	662.7	660.5	666.2	664.3
7.5°	662.1	659.8	658.6	663.4	660.8
10°	655.4	654.4	652.8	657.6	653.4
12.5°	647.0	648.0	643.8	649.3	646.7
15°	637.8	639.7	634.9	642.6	640.0
17.5°	625.6	627.8	625.0	634.6	631.7
20°	611.5	612.8	614.7	621.4	620.8
22.5°	597.1	598.1	601.3	606.4	604.8
25°	579.5	582.1	585.6	590.1	587.8
27.5°	560.6	564.5	568.0	571.5	567.7
30°	542.1	544.0	550.4	550.1	547.2
32.5°	520.6	525.4	528.0	527.0	527.4
35°	497.3	503.7	504.0	506.9	506.6
37.5°	474.2	481.3	480.3	485.8	486.7
40°	451.2	456.0	457.0	466.6	474.9
42.5°	426.6	431.4	433.9	454.1	469.4
45°	400.0	407.0	411.5	450.9	467.8
47.5°	375.0	381.4	394.2	450.9	470.1
50°	348.2	355.8	382.4	449.9	456.0
52.5°	322.2	329.9	378.9	436.2	425.6
55°	295.4	305.6	380.2	405.4	397.1
57.5°	270.4	284.8	377.0	368.6	352.0
60°	243.8	265.0	359.7	327.7	318.7
62.5°	220.5	249.0	326.4	288.6	285.4
65°	196.2	235.8	285.1	254.7	256.6
67.5°	174.1	224.0	241.9	223.7	225.0
70°	150.7	209.9	201.6	194.2	193.9
72.5°	129.0	189.8	166.4	164.2	165.1
75°	106.9	159.7	134.1	135.7	136.6
77.5°	86.7	129.0	107.5	109.4	109.4
80°	65.9	96.3	82.2	85.8	86.1
82.5°	47.4	68.8	62.7	64.6	63.0
85°	30.1	47.4	47.4	47.0	45.8
87.5°	17.0	32.6	34.6	34.2	32.6
90°	11.5	24.6	27.2	25.9	24.3
92.5°	11.5	20.8	22.7	20.5	18.9
95°	11.8	17.9	19.8	17.3	15.4
97.5°	11.5	16.6	18.6	15.4	13.4
100°	11.2	15.4	17.9	14.4	12.5
102.5°	10.6	14.7	17.6	13.8	11.8
105°	9.6	14.1	17.3	13.8	11.8
107.5°	8.3	13.1	17.3	13.8	11.8
110°	7.4	11.8	17.0	13.4	11.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	10.6	16.3	13.4	11.5
115°	4.8	9.3	15.4	13.1	11.5
117.5°	4.2	7.7	14.4	13.1	11.5
120°	3.2	6.4	13.4	12.5	11.2
122.5°	2.6	4.8	12.2	12.2	10.9
125°	1.9	3.5	10.6	11.5	10.9
127.5°	1.6	2.6	9.3	10.9	10.6
130°	1.3	1.6	8.0	10.2	9.9
132.5°	1.0	1.0	6.7	9.3	9.3
135°	1.0	0.6	5.4	8.3	8.6
137.5°	0.6	0.6	4.2	7.0	7.7
140°	0.6	0.6	3.2	6.1	6.7
142.5°	0.6	0.6	2.2	4.8	5.4
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)