

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: P397203

Luminaire Tested: **2VRVT2-LD5-4-DR100-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT2-LD5-4-DR100-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.2 lumens
Efficiency: N/A
Efficacy: 47.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

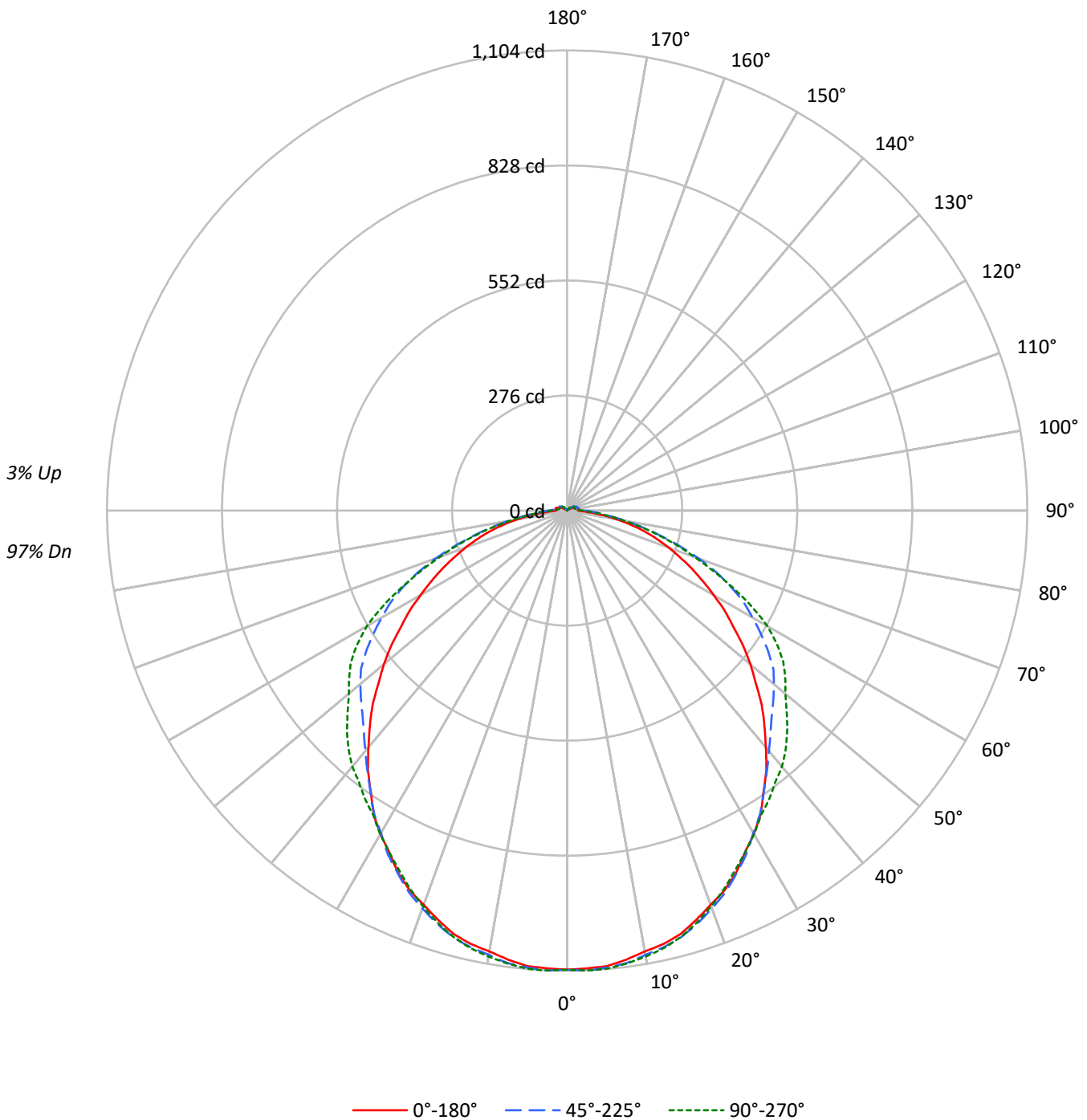
Input Watts (W): 68.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	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	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	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°	11380	11380	11380
5°	11300	11128	11121
10°	11110	10800	10768
15°	11015	10507	10390
20°	10753	10096	9911
25°	10540	9643	9400
30°	10214	9121	8972
35°	9817	8616	8642
40°	9374	8159	8451
45°	8935	7849	8186
50°	8421	7722	7864
55°	7863	7481	7726
60°	7373	7050	7270
65°	6891	6532	6271
70°	6403	5620	5124
75°	5872	4411	4017
80°	4965	3166	2845
85°	3654	2133	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.2
10°-20°	297.4	9.2
20°-30°	441.5	13.6
30°-40°	520.0	16.0
40°-50°	539.8	16.6
50°-60°	506.6	15.6
60°-70°	407.3	12.6
70°-80°	241.7	7.5
80°-90°	88.6	2.7
90°-100°	33.2	1.0
100°-110°	25.3	0.8
110°-120°	19.4	0.6
120°-130°	11.7	0.4
130°-140°	5.5	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°	843.3	26.0
0°-40°	1363.3	42.0
0°-60°	2409.7	74.3
0°-90°	3147.3	97.0
90°-120°	77.8	2.4
90°-150°	96.0	3.0
90°-180°	96.0	3.0
0°-180°	3243.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1097	1097	1100	1103	1103	104
15°	1052	1053	1059	1059	1058	296
25°	959	959	961	958	953	440
35°	822	828	823	834	845	515
45°	660	659	694	740	747	508
55°	486	503	589	616	633	438
65°	330	388	435	447	440	327
75°	191	243	231	230	226	201
85°	59	81	78	76	73	61
90°	26	44	44	41	38	15
95°	27	32	31	27	24	23
105°	25	25	26	22	19	27
115°	15	17	23	21	19	15
125°	6	7	15	17	17	6
135°	3	2	7	11	12	2
145°	0	0	0	0	0	1
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°	1101.3	1101.3	1101.3	1101.3	1101.3
2.5°	1099.2	1101.3	1104.5	1104.5	1104.5
5°	1097.0	1097.0	1100.2	1103.4	1103.4
7.5°	1086.5	1088.6	1095.0	1095.0	1096.0
10°	1073.8	1080.2	1082.3	1086.5	1086.5
12.5°	1065.4	1067.5	1072.8	1074.9	1074.9
15°	1051.7	1052.7	1059.1	1059.1	1058.0
17.5°	1029.5	1032.7	1039.0	1039.0	1035.8
20°	1006.3	1013.8	1015.8	1012.6	1010.6
22.5°	986.3	988.4	991.6	986.3	983.1
25°	958.9	958.9	961.0	957.8	952.6
27.5°	924.1	931.4	930.4	928.3	924.1
30°	895.6	899.8	893.4	894.6	896.6
32.5°	863.9	866.1	861.8	863.9	866.1
35°	821.8	828.1	822.8	834.4	845.0
37.5°	784.8	789.0	787.0	810.2	820.7
40°	741.6	745.8	753.2	787.0	801.7
42.5°	700.4	701.5	721.5	764.8	776.4
45°	660.3	659.3	694.1	740.5	746.9
47.5°	613.9	617.1	670.9	711.0	714.2
50°	573.8	579.1	647.7	674.1	683.5
52.5°	531.7	540.1	623.4	643.4	659.3
55°	486.3	503.2	588.6	616.1	633.0
57.5°	449.4	470.5	551.7	584.4	597.0
60°	406.2	442.0	513.8	545.4	554.9
62.5°	367.1	414.6	477.8	499.0	500.0
65°	330.2	388.2	434.6	447.3	439.8
67.5°	293.3	358.6	387.1	388.2	380.8
70°	258.5	323.8	335.4	331.2	324.9
72.5°	224.7	283.8	282.7	277.4	275.4
75°	191.0	242.6	231.0	230.0	225.8
77.5°	156.2	199.4	184.6	183.5	180.4
80°	121.3	153.0	141.4	142.4	138.2
82.5°	87.5	116.0	105.5	106.6	102.3
85°	59.0	81.2	78.1	75.9	72.8
87.5°	34.8	57.0	57.0	55.9	51.7
90°	26.4	44.3	44.3	41.1	38.0
92.5°	25.3	35.8	35.8	32.7	29.5
95°	27.4	31.7	30.6	27.4	24.2
97.5°	28.5	29.5	28.5	24.2	22.2
100°	28.5	27.4	27.4	22.2	20.1
102.5°	27.4	26.4	26.4	22.2	19.0
105°	25.3	25.3	26.4	22.2	19.0
107.5°	23.2	24.2	25.3	22.2	19.0
110°	20.1	22.2	25.3	22.2	19.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.9	20.1	24.2	21.1	19.0
115°	14.8	16.9	23.2	21.1	19.0
117.5°	12.6	14.8	21.1	20.1	19.0
120°	10.6	11.6	20.1	20.1	17.9
122.5°	8.4	9.5	17.9	19.0	17.9
125°	6.3	7.4	14.8	16.9	16.9
127.5°	5.3	5.3	12.6	15.8	15.8
130°	4.2	4.2	10.6	14.8	14.8
132.5°	3.2	3.2	8.4	12.6	13.7
135°	3.2	2.1	7.4	10.6	11.6
137.5°	2.1	2.1	5.3	9.5	10.6
140°	2.1	2.1	4.2	7.4	8.4
142.5°	2.1	1.0	2.1	6.3	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)