

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: P397351

Luminaire Tested: **8VRVT2-LD5-9-DR-UNV-LR63-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397351
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-LD5-9-DR-UNV-LR63-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1448.7 lumens
Efficiency: N/A
Efficacy: 8.5 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

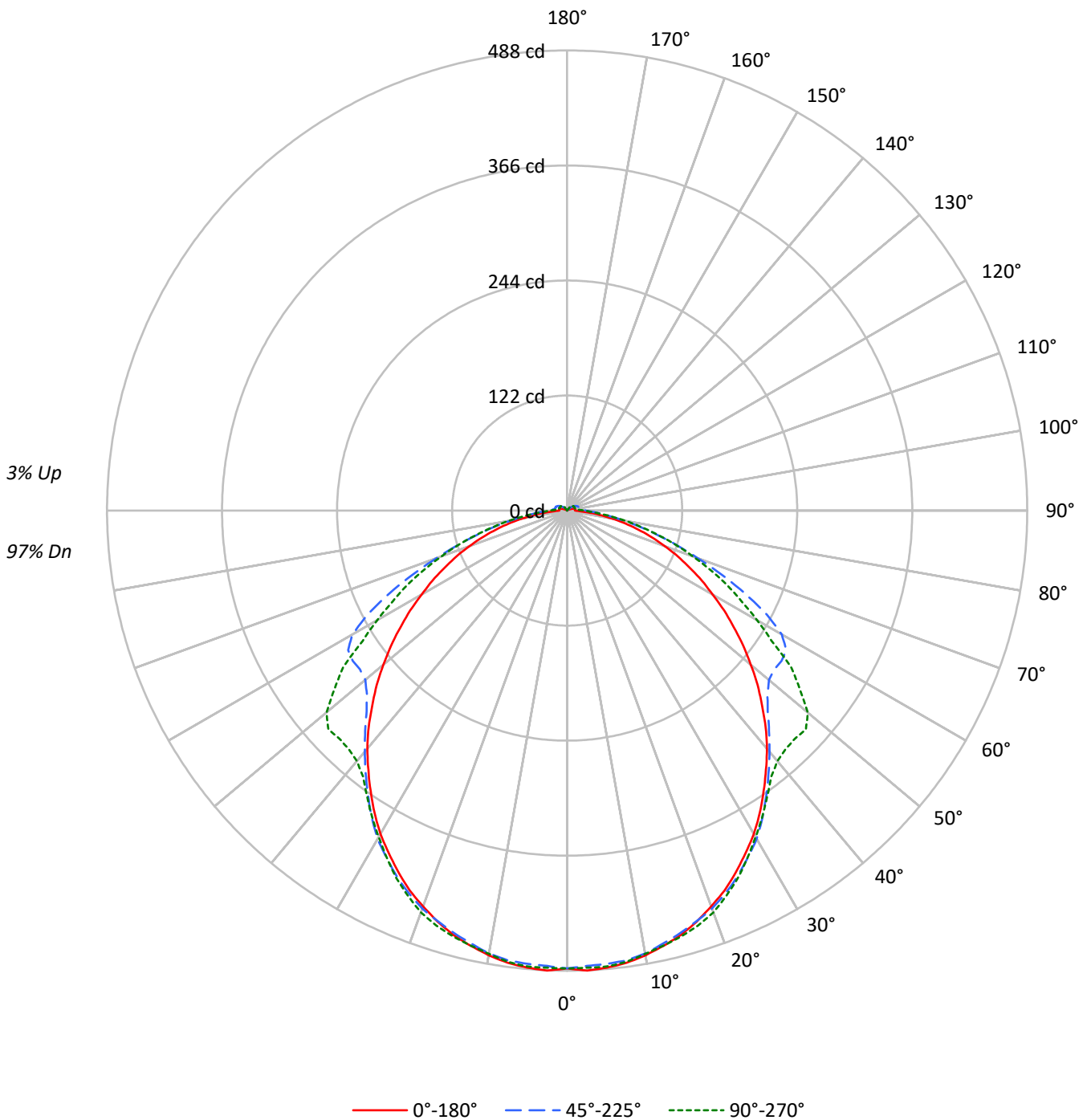
Input Watts (W): 170.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1254	1254	1254
5°	1259	1224	1223
10°	1252	1198	1183
15°	1239	1163	1148
20°	1219	1132	1112
25°	1195	1092	1059
30°	1168	1048	1000
35°	1130	988	946
40°	1093	931	914
45°	1047	879	937
50°	998	865	958
55°	945	922	885
60°	889	948	763
65°	840	829	668
70°	788	660	559
75°	725	506	444
80°	644	370	324
85°	531	266	206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	3.2
10°-20°	131.6	9.1
20°-30°	196.8	13.6
30°-40°	230.5	15.9
40°-50°	241.2	16.7
50°-60°	233.3	16.1
60°-70°	181.4	12.5
70°-80°	107.0	7.4
80°-90°	38.6	2.7
90°-100°	14.4	1.0
100°-110°	10.8	0.7
110°-120°	8.3	0.6
120°-130°	5.3	0.4
130°-140°	2.7	0.2
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	374.5	25.9
0°-40°	605.0	41.8
0°-60°	1079.6	74.5
0°-90°	1406.6	97.1
90°-120°	33.5	2.3
90°-150°	42.1	2.9
90°-180°	42.0	2.9
0°-180°	1448.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	484	482	487	485	46
15°	466	467	464	469	468	131
25°	423	425	428	431	429	195
35°	363	368	368	370	370	227
45°	292	297	301	329	342	226
55°	216	223	278	296	290	193
65°	143	172	208	186	188	142
75°	78	117	98	99	100	83
85°	22	35	35	34	33	24
90°	8	18	20	19	18	5
95°	9	13	14	13	11	7
105°	7	10	13	10	9	7
115°	4	7	11	10	8	4
125°	1	3	8	8	8	1
135°	1	0	4	6	6	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°	485.5	485.5	485.5	485.5	485.5
2.5°	488.3	486.0	483.4	486.5	485.3
5°	486.5	484.1	482.5	486.7	485.3
7.5°	483.7	482.0	481.1	484.6	482.7
10°	478.8	478.0	476.9	480.4	477.3
12.5°	472.7	473.4	470.3	474.3	472.4
15°	465.9	467.3	463.8	469.4	467.5
17.5°	457.0	458.7	456.5	463.6	461.5
20°	446.7	447.7	449.1	454.0	453.5
22.5°	436.2	436.9	439.2	443.0	441.8
25°	423.3	425.2	427.8	431.1	429.4
27.5°	409.6	412.4	414.9	417.5	414.7
30°	396.0	397.4	402.1	401.8	399.7
32.5°	380.3	383.8	385.7	385.0	385.2
35°	363.3	368.0	368.2	370.3	370.0
37.5°	346.4	351.6	350.9	354.9	355.6
40°	329.6	333.1	333.8	340.8	346.9
42.5°	311.6	315.1	317.0	331.7	342.9
45°	292.2	297.3	300.6	329.4	341.8
47.5°	274.0	278.7	288.0	329.4	343.4
50°	254.3	260.0	279.3	328.7	333.1
52.5°	235.4	241.0	276.8	318.6	310.9
55°	215.8	223.2	277.7	296.2	290.1
57.5°	197.5	208.0	275.4	269.3	257.1
60°	178.1	193.6	262.8	239.4	232.8
62.5°	161.1	181.9	238.4	210.9	208.5
65°	143.3	172.3	208.3	186.1	187.5
67.5°	127.2	163.6	176.7	163.4	164.3
70°	110.1	153.3	147.3	141.9	141.7
72.5°	94.2	138.6	121.6	119.9	120.6
75°	78.1	116.7	98.0	99.1	99.8
77.5°	63.3	94.2	78.5	80.0	80.0
80°	48.2	70.4	60.1	62.7	62.9
82.5°	34.6	50.3	45.8	47.2	46.0
85°	22.0	34.6	34.6	34.4	33.4
87.5°	12.4	23.8	25.2	25.0	23.8
90°	8.4	18.0	19.9	18.9	17.8
92.5°	8.4	15.2	16.6	15.0	13.8
95°	8.7	13.1	14.5	12.6	11.2
97.5°	8.4	12.2	13.6	11.2	9.8
100°	8.2	11.2	13.1	10.5	9.1
102.5°	7.7	10.8	12.9	10.0	8.7
105°	7.0	10.3	12.6	10.0	8.7
107.5°	6.1	9.6	12.6	10.0	8.7
110°	5.4	8.7	12.4	9.8	8.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	7.7	11.9	9.8	8.4
115°	3.5	6.8	11.2	9.6	8.4
117.5°	3.0	5.6	10.5	9.6	8.4
120°	2.3	4.7	9.8	9.1	8.2
122.5°	1.9	3.5	8.9	8.9	8.0
125°	1.4	2.6	7.7	8.4	8.0
127.5°	1.2	1.9	6.8	8.0	7.7
130°	0.9	1.2	5.8	7.5	7.2
132.5°	0.7	0.7	4.9	6.8	6.8
135°	0.7	0.5	4.0	6.1	6.3
137.5°	0.5	0.5	3.0	5.1	5.6
140°	0.5	0.5	2.3	4.4	4.9
142.5°	0.5	0.5	1.6	3.5	4.0
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)