

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: P397331

Luminaire Tested: **8VRVT2-LD5-16-FR50-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-13)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-16-FR50-UNV-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4550.0 lumens
Efficiency: N/A
Efficacy: 25.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

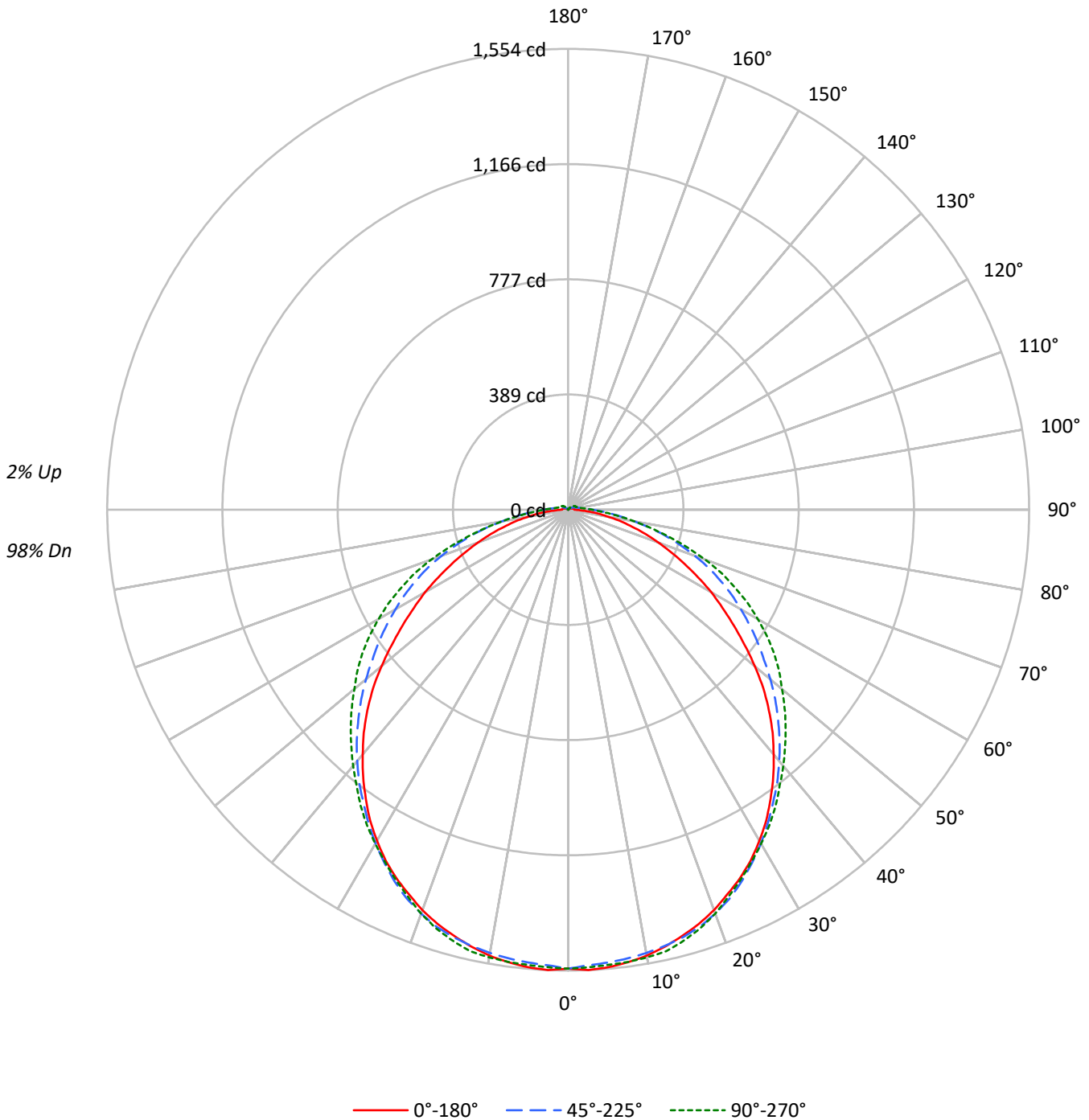
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98					98			
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81					81			
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67					67			
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56					56			
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48					48			
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41					41			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36					36			
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29					29			
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3997	3997	3997
5°	4010	3890	3883
10°	3992	3813	3798
15°	3958	3741	3695
20°	3922	3652	3553
25°	3872	3533	3395
30°	3802	3387	3253
35°	3699	3233	3117
40°	3574	3085	2972
45°	3428	2924	2840
50°	3225	2754	2706
55°	2984	2588	2587
60°	2782	2425	2418
65°	2537	2256	2206
70°	2310	2032	1932
75°	2081	1750	1555
80°	1848	1392	1164
85°	1648	1072	828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.2
10°-20°	422.1	9.3
20°-30°	635.8	14.0
30°-40°	757.2	16.6
40°-50°	773.0	17.0
50°-60°	692.8	15.2
60°-70°	540.6	11.9
70°-80°	332.8	7.3
80°-90°	138.7	3.0
90°-100°	50.0	1.1
100°-110°	26.9	0.6
110°-120°	17.6	0.4
120°-130°	10.0	0.2
130°-140°	4.4	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1204.6	26.5
0°-40°	1961.8	43.1
0°-60°	3427.6	75.3
0°-90°	4439.8	97.6
90°-120°	94.5	2.1
90°-150°	110.1	2.4
90°-180°	110.0	2.4
0°-180°	4550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1549	1543	1533	1543	1541	147
15°	1488	1489	1492	1509	1505	420
25°	1371	1382	1384	1382	1376	631
35°	1190	1215	1205	1218	1219	744
45°	957	982	1000	1029	1037	737
55°	682	721	780	832	848	612
65°	433	478	567	613	619	431
75°	224	273	339	356	350	240
85°	68	106	139	139	134	70
90°	22	57	82	83	81	14
95°	20	32	52	54	52	16
105°	16	16	29	32	31	17
115°	8	8	20	26	27	8
125°	4	2	11	18	20	3
135°	2	1	4	10	12	1
145°	1	1	1	3	4	1
155°	1	1	1	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°	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	1554.1	1548.5	1537.8	1547.9	1544.6
5°	1549.0	1543.4	1532.8	1543.4	1541.2
7.5°	1539.5	1535.6	1526.6	1539.5	1538.4
10°	1527.2	1523.3	1517.7	1533.4	1532.8
12.5°	1508.7	1507.0	1506.5	1526.1	1525.0
15°	1488.0	1488.6	1492.5	1509.3	1504.8
17.5°	1464.5	1467.8	1474.6	1484.6	1480.2
20°	1437.0	1442.6	1449.4	1453.3	1449.4
22.5°	1403.4	1413.5	1420.2	1417.4	1412.4
25°	1371.0	1382.2	1383.8	1381.6	1376.0
27.5°	1332.9	1346.9	1341.8	1344.6	1338.5
30°	1289.2	1308.8	1299.3	1304.3	1300.4
32.5°	1242.7	1265.7	1252.8	1261.2	1262.3
35°	1189.5	1214.7	1204.6	1218.1	1219.2
37.5°	1135.7	1162.1	1157.6	1174.4	1171.6
40°	1077.5	1106.6	1106.6	1125.1	1127.9
42.5°	1019.8	1044.5	1055.1	1076.9	1082.5
45°	957.1	981.7	1000.2	1028.8	1036.6
47.5°	892.7	920.1	946.5	977.8	989.6
50°	821.6	854.6	889.3	930.2	940.9
52.5°	749.9	786.9	832.2	881.5	896.6
55°	681.5	721.3	779.6	831.7	847.9
57.5°	616.6	657.5	725.8	780.7	794.7
60°	557.2	592.5	672.6	729.7	738.1
62.5°	493.4	535.4	620.5	673.1	682.7
65°	432.9	478.3	566.7	613.2	618.8
67.5°	375.8	422.3	512.4	553.3	560.0
70°	322.6	371.9	453.6	487.8	490.0
72.5°	273.9	322.0	395.4	422.8	418.9
75°	224.0	273.3	338.8	355.6	349.5
77.5°	182.0	226.8	281.7	294.0	284.5
80°	138.3	181.4	226.2	230.7	226.2
82.5°	101.4	141.7	180.3	181.4	174.7
85°	68.3	106.4	139.4	139.4	134.4
87.5°	38.6	77.8	106.4	107.5	101.9
90°	22.4	56.6	82.3	83.4	81.2
92.5°	20.7	40.9	64.4	66.1	63.8
95°	20.2	31.9	51.5	53.8	52.1
97.5°	19.6	25.8	43.1	44.8	43.7
100°	19.0	21.3	36.4	39.2	38.6
102.5°	17.4	18.5	31.9	34.7	34.2
105°	15.7	15.7	28.6	31.9	31.4
107.5°	14.0	13.4	25.8	30.2	29.7
110°	11.8	11.8	23.5	28.6	28.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.1	10.1	21.3	27.4	27.4
115°	8.4	7.8	19.6	25.8	26.9
117.5°	6.7	6.7	17.4	24.1	25.2
120°	5.6	5.0	15.1	22.4	24.1
122.5°	4.5	3.4	13.4	20.2	22.4
125°	3.9	2.2	11.2	18.5	20.2
127.5°	2.8	1.7	9.5	16.2	18.5
130°	2.2	1.7	7.8	14.0	16.2
132.5°	2.2	1.1	6.2	11.8	14.0
135°	1.7	1.1	4.5	10.1	11.8
137.5°	1.1	1.1	2.8	8.4	10.1
140°	1.1	1.1	1.7	6.2	7.8
142.5°	1.1	0.6	0.6	4.5	6.2
145°	0.6	0.6	0.6	2.8	3.9
147.5°	0.6	0.6	0.6	1.1	2.2
150°	0.6	0.6	0.6	0.0	0.6
152.5°	0.6	0.6	0.6	0.0	0.0
155°	0.6	0.6	0.6	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)