

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: P397272

Luminaire Tested: **4VRVT2-LD5-6-DR100-UNV-LG52-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397272
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: 4VRVT2-LD5-6-DR100-UNV-LG52-CD1-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4961.5 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

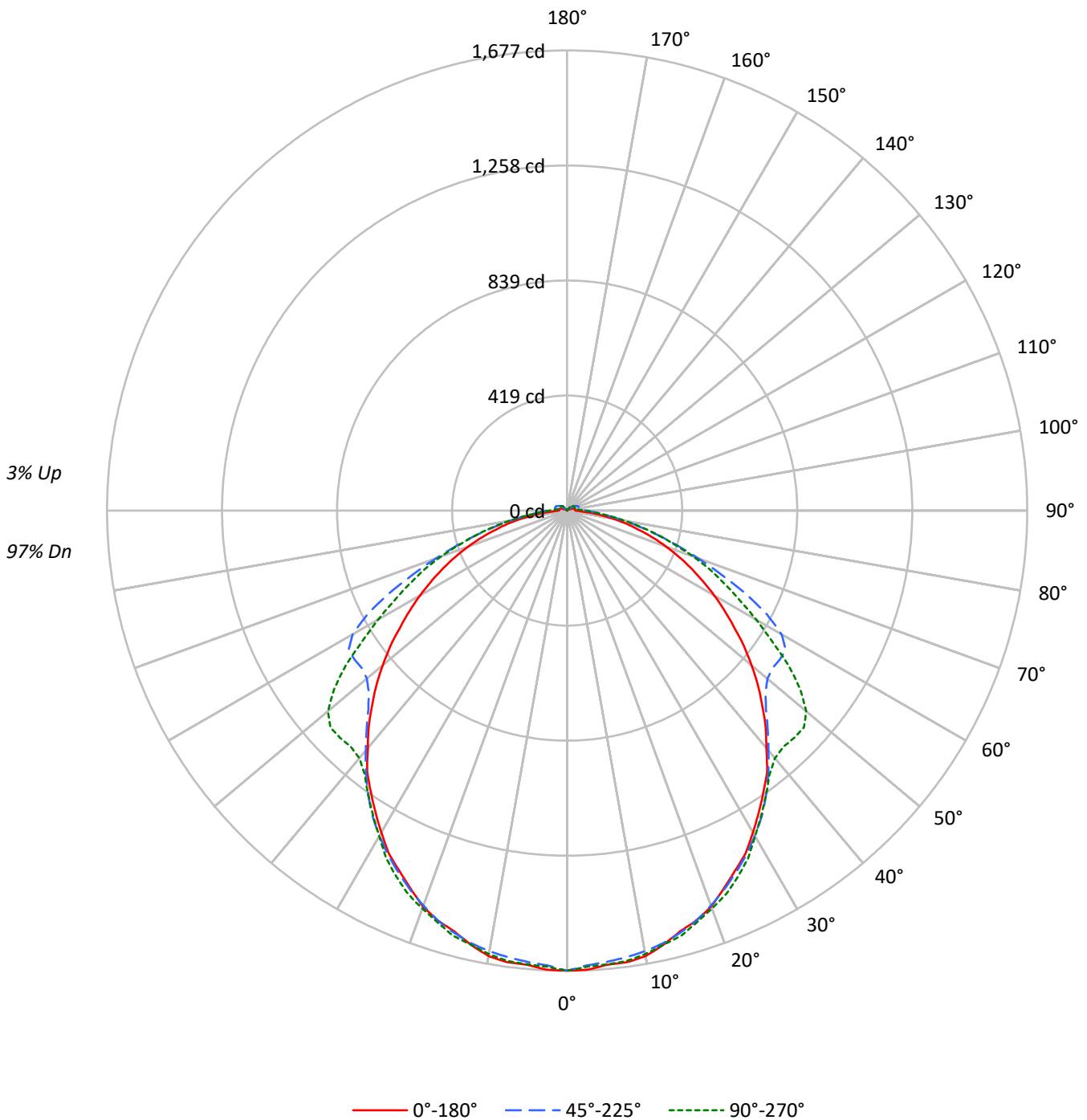
Input Watts (W): 120.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8662	8662	8662
5°	8587	8369	8364
10°	8589	8176	8133
15°	8403	7956	7879
20°	8323	7684	7566
25°	8102	7386	7266
30°	7897	7081	6855
35°	7661	6728	6463
40°	7370	6302	6210
45°	7069	5918	6417
50°	6732	5825	6543
55°	6339	6190	6014
60°	5983	6398	5214
65°	5620	5613	4522
70°	5214	4433	3847
75°	4697	3402	3024
80°	4094	2459	2166
85°	3027	1735	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.2
10°-20°	450.4	9.1
20°-30°	673.2	13.6
30°-40°	788.4	15.9
40°-50°	823.7	16.6
50°-60°	800.2	16.1
60°-70°	622.6	12.5
70°-80°	366.3	7.4
80°-90°	132.4	2.7
90°-100°	50.2	1.0
100°-110°	37.4	0.8
110°-120°	29.1	0.6
120°-130°	18.5	0.4
130°-140°	9.4	0.2
140°-150°	1.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1281.4	25.8
0°-40°	2069.8	41.7
0°-60°	3693.6	74.4
0°-90°	4815.0	97.0
90°-120°	116.8	2.4
90°-150°	146.6	3.0
90°-180°	147.0	3.0
0°-180°	4961.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1661	1657	1651	1662	1660	159
15°	1588	1593	1593	1607	1605	450
25°	1448	1460	1455	1473	1473	668
35°	1249	1257	1264	1265	1264	781
45°	1006	1016	1024	1119	1171	776
55°	744	767	946	1020	986	667
65°	499	591	719	634	634	494
75°	270	402	338	336	340	289
85°	74	120	118	117	115	81
90°	30	62	70	66	64	18
95°	30	46	50	44	40	25
105°	25	35	44	34	30	26
115°	13	24	39	34	29	13
125°	6	10	27	30	27	5
135°	2	2	14	21	22	2
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°	1676.6	1676.6	1676.6	1676.6	1676.6
2.5°	1675.0	1667.8	1659.0	1668.6	1663.8
5°	1661.4	1656.6	1651.0	1662.2	1659.8
7.5°	1660.6	1650.2	1642.2	1656.6	1655.8
10°	1648.6	1635.0	1631.0	1646.2	1641.4
12.5°	1620.6	1614.2	1615.0	1631.8	1620.6
15°	1587.8	1592.6	1592.6	1607.0	1604.6
17.5°	1566.2	1566.2	1567.0	1576.6	1572.6
20°	1535.8	1534.2	1531.8	1547.8	1543.0
22.5°	1491.0	1497.4	1495.0	1516.6	1513.4
25°	1447.8	1459.8	1455.0	1473.4	1472.6
27.5°	1408.6	1415.0	1414.2	1429.4	1427.8
30°	1354.2	1364.6	1367.8	1377.4	1370.2
32.5°	1301.4	1311.8	1320.6	1320.6	1316.6
35°	1248.6	1257.4	1263.8	1264.6	1263.8
37.5°	1197.4	1198.2	1204.6	1204.6	1211.8
40°	1129.4	1139.0	1141.4	1159.8	1178.2
42.5°	1071.0	1076.6	1082.2	1129.4	1167.0
45°	1006.2	1015.8	1023.8	1119.0	1171.0
47.5°	943.1	951.1	979.9	1123.0	1170.2
50°	877.5	888.7	952.7	1127.0	1137.4
52.5°	812.7	827.9	943.1	1091.8	1071.0
55°	743.9	767.1	946.3	1019.8	985.5
57.5°	680.7	714.3	944.7	925.5	883.9
60°	619.1	667.1	902.3	818.3	795.9
62.5°	558.3	627.1	821.5	722.3	710.3
65°	499.1	591.1	719.1	634.3	634.3
67.5°	439.9	562.3	607.1	555.9	563.9
70°	383.1	527.9	506.3	477.5	487.9
72.5°	326.4	475.1	418.3	407.9	410.3
75°	270.4	401.5	338.3	335.9	339.9
77.5°	221.6	320.0	265.6	273.6	275.2
80°	168.8	240.8	206.4	213.6	210.4
82.5°	118.4	172.8	156.0	160.8	159.2
85°	74.4	120.0	117.6	116.8	115.2
87.5°	42.4	81.6	87.2	87.2	84.0
90°	29.6	62.4	69.6	65.6	64.0
92.5°	29.6	52.8	57.6	52.0	48.8
95°	30.4	45.6	50.4	44.0	40.0
97.5°	30.4	42.4	47.2	39.2	35.2
100°	29.6	39.2	45.6	36.0	32.0
102.5°	27.2	37.6	44.8	35.2	30.4
105°	24.8	35.2	44.0	34.4	29.6
107.5°	22.4	32.8	44.0	34.4	28.8
110°	19.2	30.4	43.2	34.4	28.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.0	27.2	41.6	33.6	28.8
115°	12.8	24.0	39.2	33.6	28.8
117.5°	10.4	20.0	36.8	32.8	28.8
120°	8.8	16.0	34.4	32.0	28.0
122.5°	6.4	12.8	30.4	30.4	28.0
125°	5.6	9.6	27.2	29.6	27.2
127.5°	4.0	6.4	24.0	27.2	26.4
130°	3.2	4.0	20.0	25.6	25.6
132.5°	2.4	2.4	16.8	23.2	24.0
135°	2.4	1.6	13.6	20.8	21.6
137.5°	1.6	1.6	10.4	17.6	20.0
140°	1.6	1.6	8.0	15.2	16.8
142.5°	1.6	1.6	5.6	12.0	14.4
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)