

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: P397299

Luminaire Tested: **4VRVT3-LD5-6-G-UNV-LG52-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

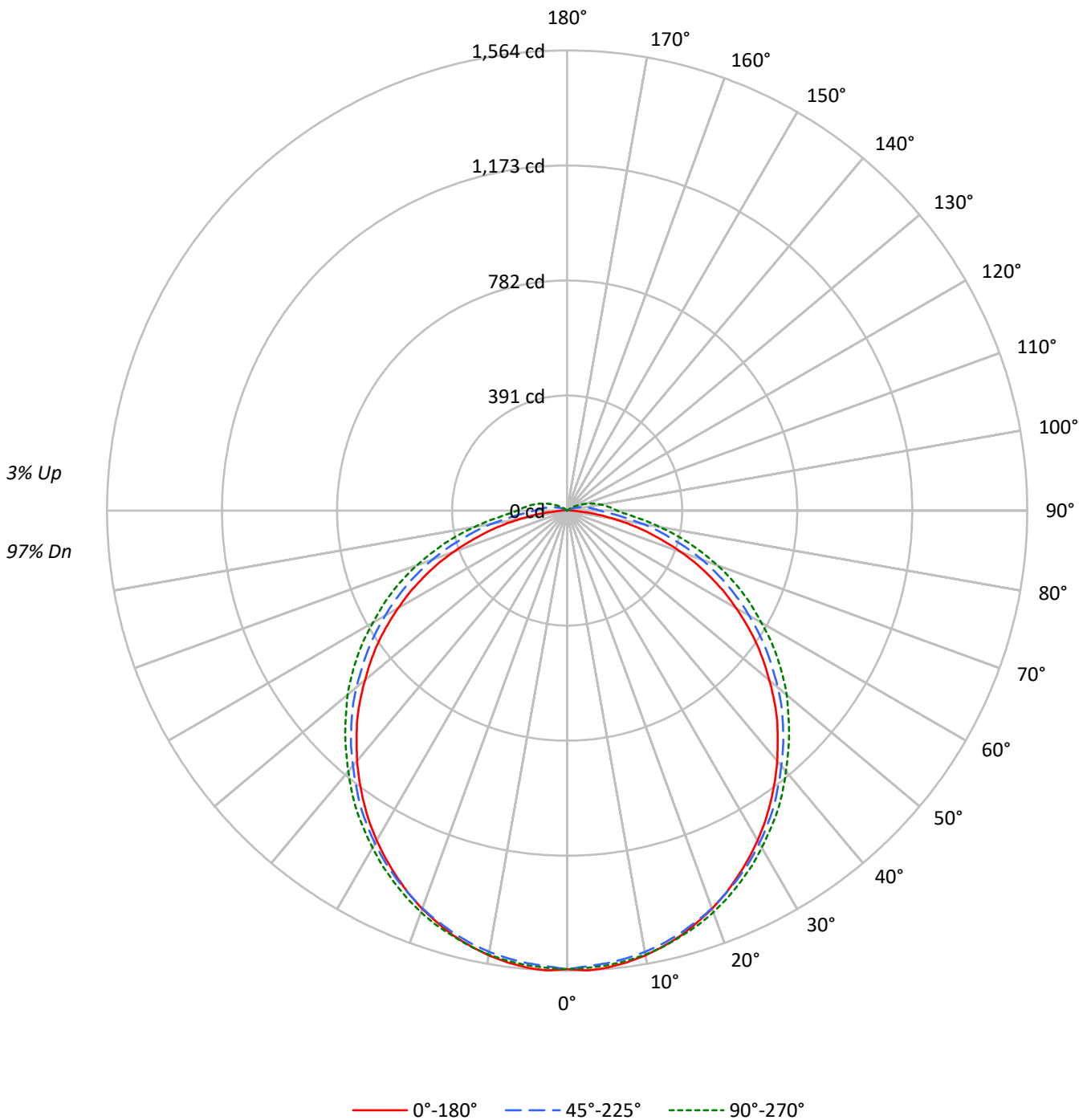
Lumens per Lamp: N/A
Luminaire Lumens: 4826.4 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 121.6
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

TEST NUMBER: P397299

CATALOG NUMBER: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P397299

CATALOG NUMBER: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U

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	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67	65
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57	54
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48	46
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10065	10065	10065
5°	9886	8551	8253
10°	9625	7431	6976
15°	9344	6528	5996
20°	9040	5781	5228
25°	8718	5140	4583
30°	8393	4580	4037
35°	8046	4082	3573
40°	7683	3620	3150
45°	7316	3211	2785
50°	6878	2823	2460
55°	6439	2458	2149
60°	5898	2106	1847
65°	5301	1772	1577
70°	4531	1448	1303
75°	3561	1109	1039
80°	2377	798	779
85°	1070	526	561



TEST NUMBER: P397299

CATALOG NUMBER: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.1
10°-20°	421.5	8.7
20°-30°	636.8	13.2
30°-40°	767.2	15.9
40°-50°	801.5	16.6
50°-60°	740.4	15.3
60°-70°	593.6	12.3
70°-80°	384.5	8.0
80°-90°	177.6	3.7
90°-100°	87.6	1.8
100°-110°	46.7	1.0
110°-120°	18.2	0.4
120°-130°	3.4	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1205.7	25.0
0°-40°	1972.8	40.9
0°-60°	3514.7	72.8
0°-90°	4670.4	96.8
90°-120°	152.5	3.2
90°-150°	155.9	3.2
90°-180°	156.0	3.2
0°-180°	4826.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1560	1555	1544	1554	1551	148
15°	1495	1494	1487	1499	1497	421
25°	1372	1376	1378	1391	1393	632
35°	1207	1215	1225	1239	1246	755
45°	1010	1021	1038	1058	1067	777
55°	784	802	827	857	872	700
65°	541	557	602	640	657	534
75°	281	317	368	413	430	298
85°	57	106	165	209	224	69
90°	13	53	110	154	169	9
95°	8	33	84	127	142	6
105°	4	7	42	77	91	4
115°	1	1	12	34	45	2
125°	1	0	0	6	11	1
135°	0	0	0	0	0	0
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



TEST NUMBER: P397299

CATALOG NUMBER: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.4	1558.4	1558.4	1558.4	1558.4
2.5°	1564.2	1559.6	1550.2	1558.4	1556.1
5°	1559.6	1554.9	1544.3	1553.8	1551.4
7.5°	1549.0	1544.3	1535.0	1545.5	1543.2
10°	1535.0	1531.4	1523.2	1532.6	1532.6
12.5°	1516.2	1515.0	1506.8	1517.4	1517.4
15°	1495.1	1493.9	1486.9	1498.6	1497.4
17.5°	1468.2	1469.3	1463.4	1475.1	1477.5
20°	1440.0	1440.0	1438.8	1450.6	1452.9
22.5°	1408.3	1409.5	1408.3	1422.4	1424.7
25°	1372.0	1375.5	1377.8	1390.7	1393.0
27.5°	1334.5	1339.1	1343.8	1356.7	1360.2
30°	1294.6	1298.1	1306.3	1320.4	1322.7
32.5°	1252.4	1259.4	1266.4	1280.5	1285.2
35°	1206.6	1214.8	1225.4	1239.4	1246.5
37.5°	1159.8	1169.1	1178.5	1197.3	1203.1
40°	1110.5	1121.0	1132.7	1150.3	1157.4
42.5°	1058.9	1073.0	1087.0	1105.8	1111.7
45°	1009.6	1021.4	1037.8	1057.7	1067.1
47.5°	954.5	969.8	988.6	1009.6	1019.0
50°	897.0	913.4	934.6	959.2	974.5
52.5°	841.9	858.3	879.4	909.9	924.0
55°	784.5	802.1	826.7	857.2	872.4
57.5°	724.7	743.4	770.4	804.4	819.7
60°	662.6	682.5	714.2	751.7	762.2
62.5°	603.9	622.6	659.0	695.4	710.6
65°	540.6	557.0	601.5	640.2	656.6
67.5°	478.4	497.2	544.1	586.3	600.4
70°	411.6	435.0	487.8	526.5	543.0
72.5°	344.7	372.9	428.0	470.2	485.4
75°	281.4	316.6	368.2	412.8	430.3
77.5°	220.5	256.8	315.4	356.5	374.1
80°	158.3	201.7	259.1	301.4	317.8
82.5°	105.5	150.1	207.5	252.1	269.7
85°	57.4	105.5	165.4	208.7	224.0
87.5°	27.0	73.8	130.2	173.5	191.1
90°	12.9	52.8	110.2	153.6	168.9
92.5°	10.6	41.0	97.4	139.5	155.9
95°	8.2	32.8	84.4	126.6	141.9
97.5°	7.0	23.4	73.8	113.8	130.2
100°	5.8	16.4	62.2	102.0	116.1
102.5°	4.7	10.6	51.6	90.3	104.4
105°	3.5	7.0	42.2	77.4	91.4
107.5°	3.5	3.5	34.0	65.7	79.8
110°	2.3	2.3	24.6	55.1	66.8



TEST NUMBER: P397299

CATALOG NUMBER: 4VRVT3-LD5-6-G-UNV-LG52-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	17.6	44.6	55.1
115°	1.2	1.2	11.8	34.0	44.6
117.5°	1.2	1.2	7.0	25.8	34.0
120°	1.2	1.2	3.5	17.6	25.8
122.5°	1.2	1.2	1.2	11.8	17.6
125°	1.2	0.0	0.0	5.8	10.6
127.5°	0.0	0.0	0.0	2.3	5.8
130°	0.0	0.0	0.0	0.0	1.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)