

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: P397396

Luminaire Tested: **VRVT4LED-LD5-24-DRF-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4LED-LD5-24-DRF-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

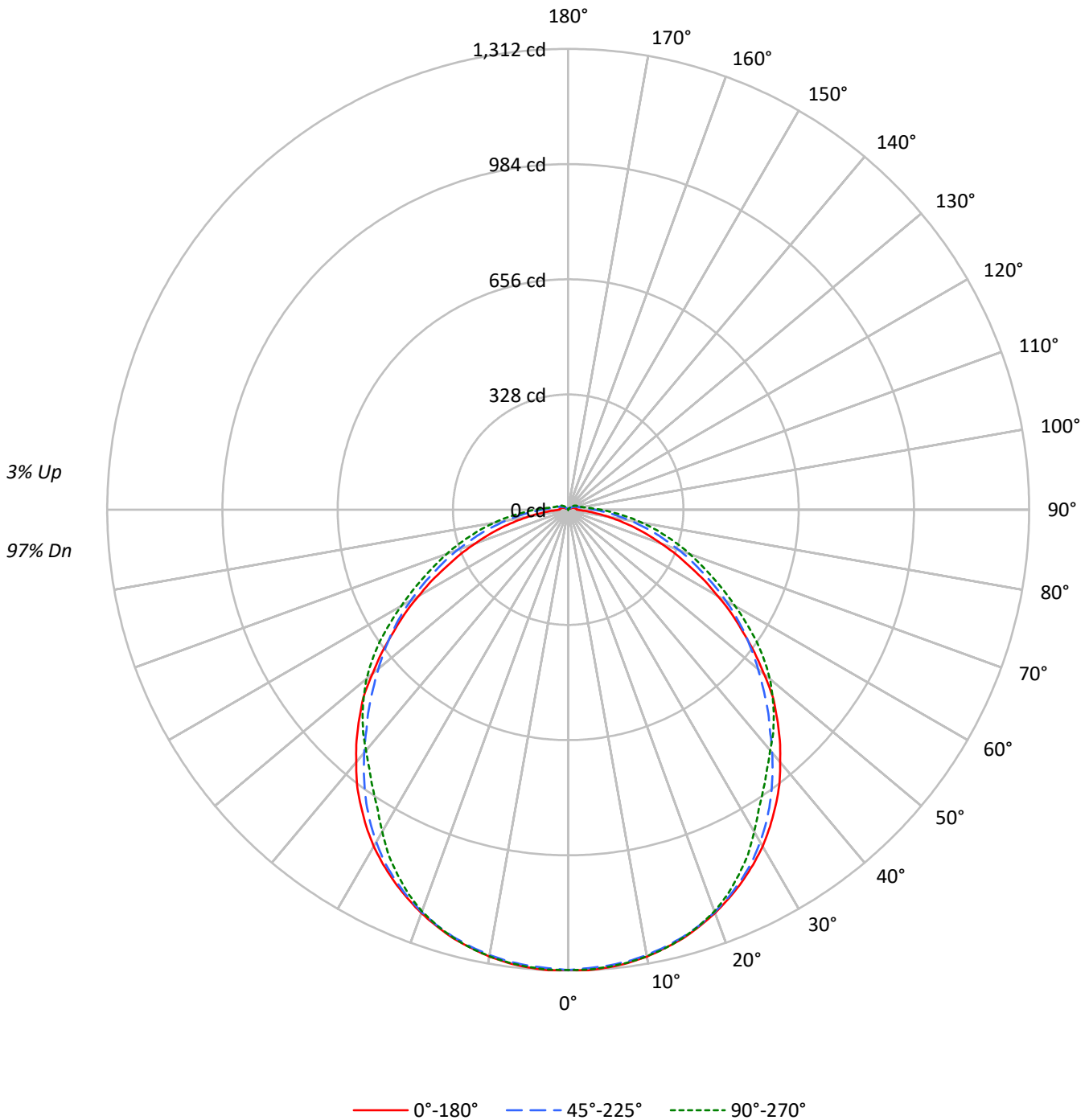
Lumens per Lamp: N/A
Luminaire Lumens: 3752.8 lumens
Efficiency: N/A
Efficacy: 8.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

Input Watts (W): 464.1
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	77	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	79	70	64	86	77	69	63	73	67	61	70	65	60	67	62	58	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	55	50	48
5	75	62	53	47	73	61	53	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	32	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3282	3282	3282
5°	3272	3217	3218
10°	3251	3156	3150
15°	3225	3090	3075
20°	3188	3016	2983
25°	3144	2927	2853
30°	3094	2815	2689
35°	3019	2674	2537
40°	2921	2507	2435
45°	2807	2345	2365
50°	2644	2193	2272
55°	2440	2055	2131
60°	2227	1894	1942
65°	1993	1717	1770
70°	1764	1549	1624
75°	1528	1375	1466
80°	1240	1179	1297
85°	929	994	1114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.3
10°-20°	355.9	9.5
20°-30°	534.7	14.2
30°-40°	626.8	16.7
40°-50°	633.5	16.9
50°-60°	557.8	14.9
60°-70°	416.1	11.1
70°-80°	261.5	7.0
80°-90°	123.3	3.3
90°-100°	52.0	1.4
100°-110°	30.2	0.8
110°-120°	19.4	0.5
120°-130°	10.9	0.3
130°-140°	4.9	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1014.6	27.0
0°-40°	1641.4	43.7
0°-60°	2832.7	75.5
0°-90°	3633.6	96.8
90°-120°	101.5	2.7
90°-150°	118.6	3.2
90°-180°	119.0	3.2
0°-180°	3752.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1308	1306	1303	1306	1307	124
15°	1264	1262	1259	1261	1262	356
25°	1170	1168	1164	1156	1148	539
35°	1029	1028	1005	976	969	643
45°	840	836	803	815	828	648
55°	607	605	614	647	655	545
65°	380	387	422	448	452	380
75°	194	210	255	281	287	206
85°	55	77	119	142	145	58
90°	26	45	75	90	93	15
95°	23	34	50	58	59	19
105°	19	22	30	34	34	20
115°	12	13	21	25	27	12
125°	6	5	13	18	20	5
135°	3	2	5	10	12	2
145°	1	1	1	3	4	1
155°	1	1	1	0	0	0
165°	1	1	1	0	0	0
175°	1	1	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.3	1310.3	1310.3	1310.3	1310.3
2.5°	1312.4	1310.4	1306.3	1308.5	1310.6
5°	1308.2	1306.4	1303.1	1305.5	1306.6
7.5°	1301.8	1299.7	1297.0	1298.8	1300.4
10°	1291.7	1290.6	1287.4	1289.5	1290.9
12.5°	1278.1	1277.6	1274.8	1277.8	1278.8
15°	1263.7	1261.6	1259.4	1261.0	1262.0
17.5°	1243.6	1243.2	1241.2	1242.9	1241.3
20°	1222.3	1222.0	1218.9	1219.7	1216.8
22.5°	1196.8	1197.6	1193.0	1188.7	1185.5
25°	1169.6	1168.5	1163.9	1155.7	1147.6
27.5°	1139.4	1138.8	1131.4	1116.7	1107.6
30°	1106.9	1104.4	1092.8	1070.7	1058.6
32.5°	1069.3	1068.3	1050.9	1024.0	1010.1
35°	1029.0	1027.9	1004.7	976.3	969.1
37.5°	987.4	983.7	955.1	932.8	930.1
40°	938.7	936.3	903.4	889.9	894.6
42.5°	892.0	888.7	849.8	850.9	863.4
45°	840.5	835.5	802.7	815.1	827.7
47.5°	790.3	777.8	752.5	778.7	789.6
50°	727.4	723.2	705.3	736.5	749.6
52.5°	668.7	665.9	658.4	694.7	703.4
55°	607.1	604.7	613.5	646.6	655.1
57.5°	552.2	548.7	566.1	597.0	601.0
60°	491.2	490.6	517.3	547.9	548.8
62.5°	437.8	433.0	469.3	496.3	498.9
65°	380.0	386.6	421.6	447.5	452.2
67.5°	331.8	340.0	377.8	405.5	408.0
70°	281.0	291.2	335.0	362.2	367.9
72.5°	237.0	249.6	290.9	321.3	327.7
75°	193.6	209.6	254.7	281.1	287.2
77.5°	153.4	172.5	213.9	245.3	250.6
80°	115.5	135.5	180.2	208.0	212.3
82.5°	82.2	103.4	145.9	173.9	179.4
85°	54.7	76.8	118.6	141.9	145.1
87.5°	35.4	57.4	94.1	113.6	116.3
90°	25.6	45.1	74.9	90.4	93.1
92.5°	24.2	38.1	60.3	71.8	72.0
95°	23.2	33.8	49.9	57.9	58.7
97.5°	22.6	30.7	42.6	47.8	48.2
100°	21.8	27.7	37.6	41.1	41.6
102.5°	20.5	24.8	33.3	37.1	37.3
105°	18.9	22.4	30.4	33.6	34.2
107.5°	17.1	19.8	27.5	31.0	31.8
110°	15.2	17.4	25.3	29.0	30.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.4	14.9	23.0	27.0	28.2
115°	11.5	12.6	21.0	25.1	26.6
117.5°	9.8	10.4	18.7	23.2	25.0
120°	8.3	8.3	16.6	21.4	23.0
122.5°	6.9	6.6	14.7	19.5	21.3
125°	5.8	5.0	12.6	17.6	19.5
127.5°	4.8	3.8	10.7	15.7	17.4
130°	4.2	3.2	8.6	13.8	15.5
132.5°	3.4	2.7	6.9	11.8	13.4
135°	2.9	2.2	5.3	9.9	11.5
137.5°	2.4	1.9	3.7	8.2	9.6
140°	1.9	1.6	2.4	6.6	7.7
142.5°	1.6	1.3	1.3	4.8	6.1
145°	1.3	1.1	0.6	3.2	4.3
147.5°	1.1	1.0	0.6	2.1	2.9
150°	1.0	0.8	0.6	0.8	1.6
152.5°	1.0	0.8	0.6	0.2	0.3
155°	1.0	1.0	0.6	0.2	0.0
157.5°	1.0	1.0	0.6	0.2	0.0
160°	1.0	1.0	0.6	0.3	0.0
162.5°	1.0	1.0	0.8	0.3	0.0
165°	1.1	1.0	0.8	0.3	0.2
167.5°	1.1	1.1	0.8	0.3	0.2
170°	1.1	1.1	0.8	0.5	0.2
172.5°	1.1	1.1	0.8	0.5	0.2
175°	1.1	1.1	0.8	0.5	0.3
177.5°	1.1	1.1	0.8	0.5	0.3
180°	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)