

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: P397418

Luminaire Tested: **VRVT4S-LD5-12-DR-LA59-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: VRVT4S-LD5-12-DR-LA59-CD2-U
Description:
Light Source: -
Ballast/Driver: -

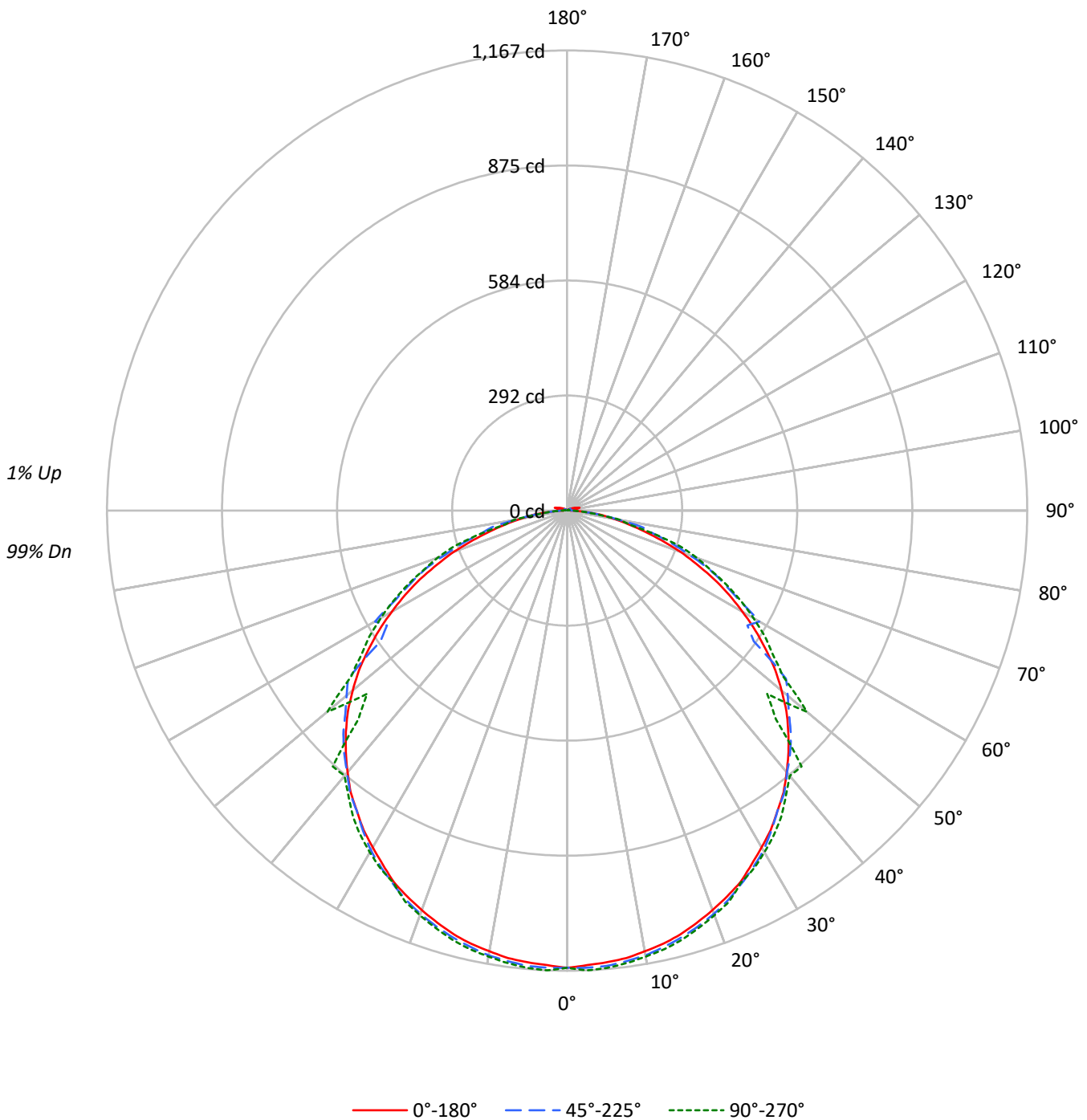
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3425.0 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 128.4
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5532	5532	5532
5°	5450	5433	5466
10°	5385	5316	5347
15°	5324	5191	5241
20°	5245	5068	5115
25°	5184	4931	4953
30°	5081	4797	4866
35°	4998	4616	4750
40°	4902	4473	4583
45°	4780	4340	4104
50°	4610	4184	4619
55°	4368	3550	3983
60°	4056	3755	3721
65°	3686	3235	3367
70°	3205	2746	2982
75°	2549	2171	2228
80°	1962	1486	1618
85°	1237	708	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.2
10°-20°	316.3	9.2
20°-30°	481.4	14.1
30°-40°	586.4	17.1
40°-50°	612.5	17.9
50°-60°	560.3	16.4
60°-70°	427.9	12.5
70°-80°	233.3	6.8
80°-90°	63.0	1.8
90°-100°	9.6	0.3
100°-110°	11.7	0.3
110°-120°	7.1	0.2
120°-130°	3.3	0.1
130°-140°	1.1	0.0
140°-150°	0.4	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	907.8	26.5
0°-40°	1494.2	43.6
0°-60°	2667.0	77.9
0°-90°	3391.3	99.0
90°-120°	28.4	0.8
90°-150°	33.3	1.0
90°-180°	34.0	1.0
0°-180°	3425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1150	1155	1159	1163	1164	109
15°	1112	1117	1121	1125	1127	314
25°	1040	1043	1045	1048	1042	478
35°	930	935	930	942	947	583
45°	793	797	803	844	748	611
55°	615	619	578	641	637	550
65°	410	423	439	440	446	405
75°	200	216	227	226	225	217
85°	54	54	50	48	48	58
90°	9	15	15	14	14	7
95°	9	8	8	7	7	10
105°	28	37	5	5	5	28
115°	14	7	9	3	4	14
125°	6	5	2	2	2	6
135°	3	2	1	1	1	2
145°	1	1	0	0	0	1
155°	0	0	0	0	0	0
165°	1	1	1	1	0	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.4	1159.4	1159.4	1159.4	1159.4
2.5°	1153.9	1156.8	1160.5	1165.6	1167.1
5°	1149.9	1154.7	1159.0	1163.1	1164.2
7.5°	1144.8	1150.7	1152.5	1157.6	1157.6
10°	1135.0	1141.5	1145.2	1148.5	1148.5
12.5°	1125.5	1130.2	1133.5	1137.5	1139.3
15°	1112.4	1116.8	1120.8	1124.8	1126.6
17.5°	1095.6	1102.5	1105.1	1108.4	1109.8
20°	1078.1	1084.7	1088.3	1091.2	1092.0
22.5°	1059.5	1064.6	1068.3	1069.3	1073.4
25°	1039.8	1043.1	1044.9	1047.8	1042.0
27.5°	1012.1	1018.3	1020.9	1018.3	1024.2
30°	986.2	992.4	995.3	996.1	1000.8
32.5°	960.7	965.1	963.6	969.1	976.0
35°	930.1	935.2	930.1	942.1	947.2
37.5°	901.3	903.8	904.2	916.2	911.1
40°	866.3	869.6	867.7	875.4	878.3
42.5°	830.9	833.8	837.1	842.9	880.1
45°	793.4	797.0	802.8	844.0	748.5
47.5°	754.3	755.1	762.7	699.7	687.6
50°	709.9	709.5	730.3	664.3	793.4
52.5°	665.4	665.0	699.7	731.0	690.2
55°	615.1	618.7	577.9	640.9	636.6
57.5°	566.2	569.5	541.8	585.5	595.0
60°	513.4	526.1	562.6	545.4	545.8
62.5°	463.0	474.3	490.4	495.9	498.0
65°	410.5	422.9	439.0	440.4	445.9
67.5°	354.8	372.6	391.9	389.4	394.5
70°	305.5	283.7	331.0	333.2	349.3
72.5°	250.1	276.4	280.0	233.4	300.4
75°	200.2	215.5	226.8	226.4	225.0
77.5°	158.6	168.8	196.1	176.5	159.7
80°	120.0	122.9	130.2	129.4	136.0
82.5°	90.4	86.0	88.6	87.5	77.3
85°	53.6	54.0	49.6	48.1	47.8
87.5°	22.2	24.8	24.1	23.0	24.8
90°	9.1	15.3	14.6	14.2	13.9
92.5°	10.2	10.9	10.2	8.8	7.6
95°	8.8	8.0	8.4	6.9	6.9
97.5°	12.0	6.6	6.6	5.8	5.5
100°	24.1	5.8	6.2	5.1	5.1
102.5°	32.1	6.2	5.5	5.1	5.5
105°	28.1	37.2	4.7	5.1	5.1
107.5°	23.7	21.9	4.4	4.7	5.1
110°	20.0	13.5	3.6	4.4	4.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.4	9.5	3.3	3.6	4.4
115°	13.9	6.9	9.1	3.3	3.6
117.5°	11.7	7.3	9.9	2.9	3.3
120°	9.5	15.0	5.1	2.5	2.5
122.5°	7.6	6.9	3.6	1.8	2.2
125°	6.2	5.1	2.5	1.5	1.8
127.5°	5.1	4.0	1.8	1.1	1.5
130°	4.4	3.6	1.1	1.1	1.1
132.5°	3.6	2.9	1.1	0.7	1.1
135°	2.9	2.2	1.1	0.7	0.7
137.5°	2.2	1.8	0.7	0.7	0.7
140°	1.8	1.1	0.4	0.4	0.4
142.5°	1.5	1.1	0.4	0.4	0.4
145°	1.1	0.7	0.4	0.4	0.4
147.5°	0.7	0.4	0.4	0.4	0.4
150°	0.4	0.4	0.4	0.4	0.4
152.5°	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4
162.5°	0.7	0.7	0.7	0.7	0.4
165°	0.7	0.7	0.7	0.7	0.4
167.5°	0.7	0.7	0.7	0.7	0.4
170°	0.7	0.7	0.7	0.7	0.4
172.5°	0.7	0.7	0.7	0.7	0.7
175°	0.7	0.7	0.7	0.7	0.7
177.5°	0.7	0.7	0.7	0.7	0.7
180°	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)