

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: P397427

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-7)
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-PCF-LA59-CD2-U
Description:
Light Source: -
Ballast/Driver: -

Summary

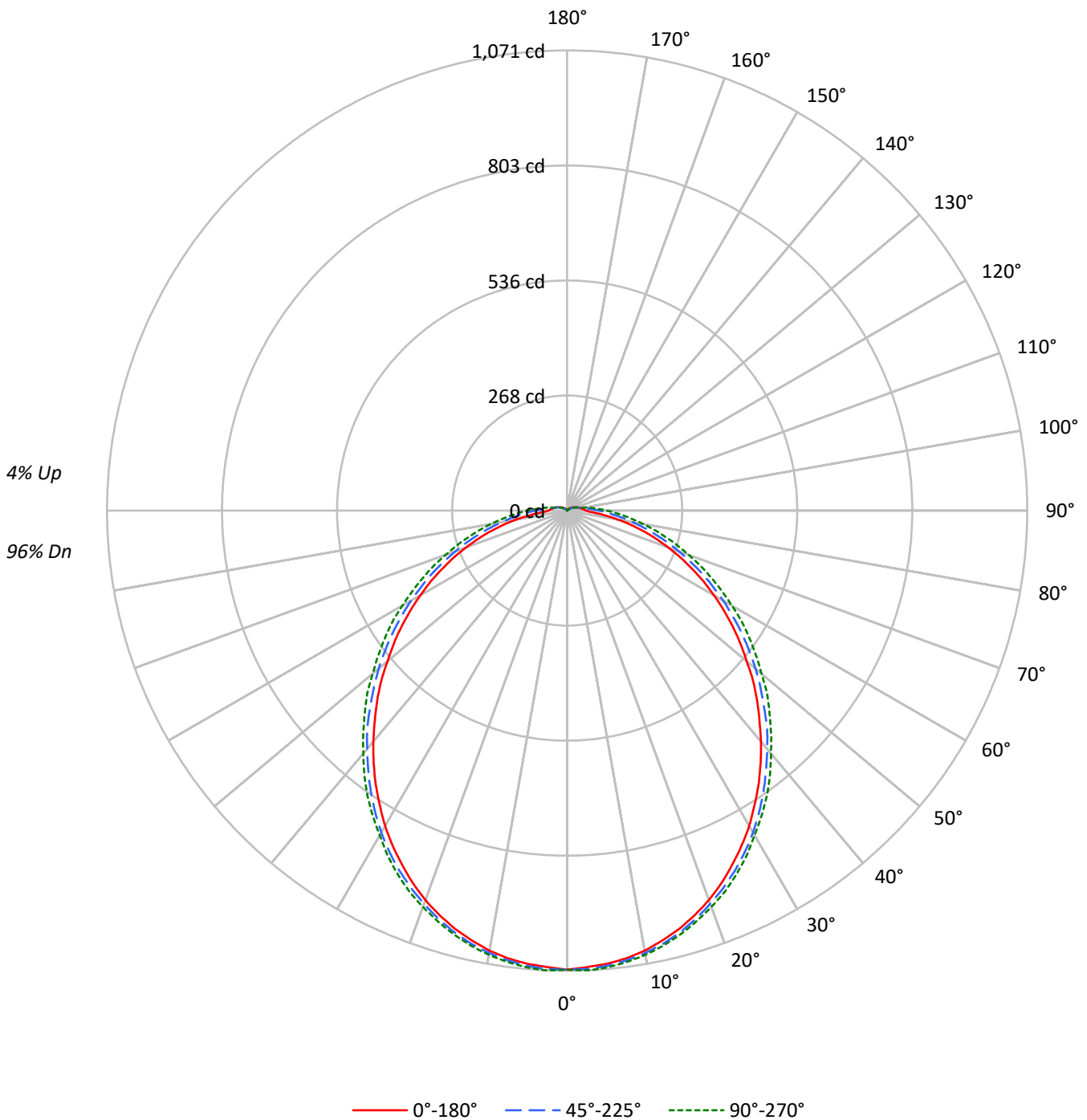
Lumens per Lamp: N/A
Luminaire Lumens: 3048.6 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5098	5098	5098
5°	5019	4988	5012
10°	4935	4853	4889
15°	4824	4705	4749
20°	4692	4535	4597
25°	4533	4361	4437
30°	4367	4171	4242
35°	4175	3956	4063
40°	3971	3734	3851
45°	3769	3505	3652
50°	3541	3282	3438
55°	3340	3043	3241
60°	3117	2801	3017
65°	2882	2553	2793
70°	2618	2291	2560
75°	2322	2020	2347
80°	1955	1764	2137
85°	1540	1537	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	3.3
10°-20°	286.1	9.4
20°-30°	424.9	13.9
30°-40°	497.3	16.3
40°-50°	499.8	16.4
50°-60°	443.1	14.5
60°-70°	343.8	11.3
70°-80°	224.3	7.4
80°-90°	117.1	3.8
90°-100°	56.0	1.8
100°-110°	29.2	1.0
110°-120°	15.9	0.5
120°-130°	7.5	0.2
130°-140°	2.3	0.1
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	812.0	26.6
0°-40°	1309.3	42.9
0°-60°	2252.2	73.9
0°-90°	2937.3	96.3
90°-120°	101.1	3.3
90°-150°	111.1	3.6
90°-180°	111.0	3.6
0°-180°	3048.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1059	1060	1064	1066	1068	100
15°	1008	1010	1016	1019	1021	284
25°	909	915	924	931	934	419
35°	777	785	797	807	810	486
45°	626	634	648	661	666	482
55°	470	479	495	512	518	421
65°	321	330	346	365	370	318
75°	182	191	211	230	237	194
85°	67	85	108	127	131	66
90°	43	56	74	88	91	24
95°	37	40	50	60	62	30
105°	27	26	27	27	29	29
115°	19	15	16	15	16	19
125°	11	9	7	7	8	10
135°	6	4	1	1	2	5
145°	2	1	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	1	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°	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1063.4	1064.8	1067.8	1070.7	1071.2
5°	1058.9	1060.3	1063.9	1066.4	1067.5
7.5°	1051.2	1052.5	1056.0	1059.4	1059.8
10°	1040.1	1041.9	1045.5	1049.4	1050.1
12.5°	1024.9	1027.8	1032.4	1035.8	1036.7
15°	1007.9	1010.4	1015.8	1019.2	1020.8
17.5°	987.4	990.6	996.3	1000.4	1002.2
20°	964.5	967.7	973.8	980.9	981.5
22.5°	938.7	943.7	950.2	957.0	959.8
25°	909.2	914.9	924.2	931.4	933.5
27.5°	879.3	884.7	896.0	903.5	905.1
30°	847.5	853.4	865.4	871.3	872.5
32.5°	812.1	818.9	831.8	840.0	842.0
35°	776.9	784.9	797.1	806.9	810.3
37.5°	739.7	748.6	760.4	772.9	775.6
40°	701.8	711.1	724.3	735.9	738.1
42.5°	662.4	672.6	688.9	698.2	702.5
45°	625.6	634.0	648.3	660.8	666.2
47.5°	586.9	595.2	610.2	625.0	631.1
50°	545.3	556.7	572.8	587.1	590.5
52.5°	508.6	519.5	533.5	549.4	554.6
55°	470.3	478.9	495.4	512.2	518.1
57.5°	432.1	441.4	456.6	473.6	482.5
60°	394.5	403.3	419.7	437.4	442.6
62.5°	358.0	367.0	381.8	401.1	406.3
65°	321.0	329.8	346.4	365.0	369.8
67.5°	285.2	293.5	310.5	330.3	336.2
70°	249.5	260.4	276.1	294.4	299.9
72.5°	216.0	225.5	243.4	262.0	268.4
75°	182.4	191.0	211.0	230.5	237.0
77.5°	150.9	162.0	181.5	202.8	208.0
80°	119.6	131.3	154.5	174.9	179.6
82.5°	91.2	106.4	130.0	150.2	153.1
85°	66.7	85.3	107.7	126.6	131.1
87.5°	50.1	68.3	90.3	105.9	110.0
90°	43.1	55.6	73.7	87.8	91.2
92.5°	40.2	46.3	60.6	73.1	75.3
95°	37.4	39.9	49.7	59.9	62.4
97.5°	34.7	35.6	41.7	49.0	51.0
100°	32.2	32.5	35.2	40.4	41.7
102.5°	29.7	29.0	30.2	32.9	34.0
105°	27.4	26.1	26.8	27.2	28.6
107.5°	25.2	23.1	23.6	23.1	23.8
110°	22.9	20.2	20.6	20.0	20.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.6	17.7	18.1	17.2	18.1
115°	18.6	15.4	15.7	14.8	15.9
117.5°	16.8	13.8	13.2	12.5	13.8
120°	14.8	12.0	10.9	10.4	12.0
122.5°	13.2	10.7	8.6	8.6	10.2
125°	11.3	9.3	6.6	6.8	8.4
127.5°	10.0	8.0	4.8	5.4	6.8
130°	8.6	6.8	2.9	4.1	5.4
132.5°	7.0	5.4	1.8	2.7	3.9
135°	5.9	4.5	1.1	1.4	2.5
137.5°	4.8	3.4	0.4	0.2	1.1
140°	3.6	2.5	0.2	0.0	0.0
142.5°	2.5	1.6	0.0	0.0	0.0
145°	1.6	0.9	0.0	0.0	0.0
147.5°	0.9	0.4	0.0	0.0	0.0
150°	0.4	0.2	0.0	0.0	0.0
152.5°	0.4	0.2	0.0	0.0	0.0
155°	0.4	0.4	0.0	0.0	0.0
157.5°	0.4	0.4	0.2	0.0	0.0
160°	0.4	0.4	0.2	0.0	0.0
162.5°	0.4	0.4	0.2	0.0	0.0
165°	0.4	0.4	0.2	0.0	0.0
167.5°	0.4	0.4	0.2	0.0	0.0
170°	0.4	0.4	0.2	0.0	0.0
172.5°	0.4	0.4	0.2	0.0	0.0
175°	0.7	0.4	0.2	0.0	0.0
177.5°	0.7	0.4	0.2	0.0	0.0
180°	0.2	0.2	0.2	0.2	0.2

(END OF REPORT)