

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: P397233

Luminaire Tested: **2VRVT3-LD5-4-G-UNV-LG52-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 2VRVT3-LD5-4-G-UNV-LG52-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

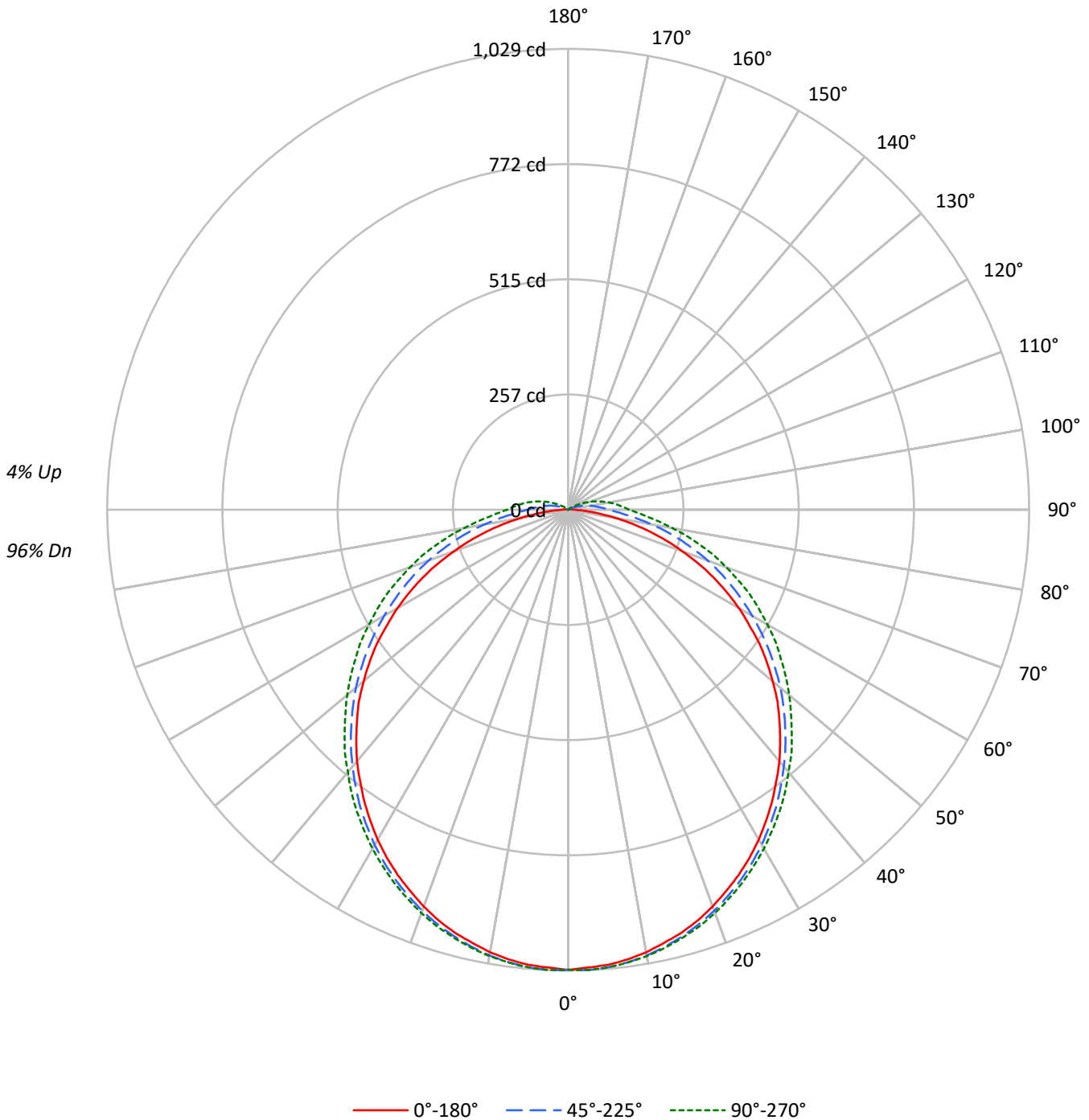
Lumens per Lamp: N/A
Luminaire Lumens: 3246.4 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 76.4
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	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80	78
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13269	13269	13269
5°	12650	11205	10912
10°	12052	9628	9213
15°	11473	8383	7919
20°	10891	7369	6898
25°	10321	6512	6050
30°	9753	5771	5333
35°	9171	5116	4715
40°	8609	4522	4163
45°	8005	3989	3683
50°	7391	3505	3253
55°	6737	3043	2854
60°	5987	2608	2489
65°	5163	2204	2149
70°	4201	1821	1801
75°	3201	1437	1473
80°	2092	1075	1153
85°	955	751	882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.0
10°-20°	277.8	8.6
20°-30°	419.7	12.9
30°-40°	505.9	15.6
40°-50°	529.3	16.3
50°-60°	490.7	15.1
60°-70°	398.0	12.3
70°-80°	267.5	8.2
80°-90°	137.1	4.2
90°-100°	70.9	2.2
100°-110°	36.8	1.1
110°-120°	13.6	0.4
120°-130°	1.9	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°	794.8	24.5
0°-40°	1300.7	40.1
0°-60°	2320.6	71.5
0°-90°	3123.3	96.2
90°-120°	121.3	3.7
90°-150°	123.2	3.8
90°-180°	123.0	3.8
0°-180°	3246.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1020	1022	1026	1026	1026	97
15°	978	981	986	989	989	276
25°	900	903	912	918	919	415
35°	794	798	810	818	822	497
45°	666	671	685	699	706	515
55°	522	527	547	570	579	465
65°	358	370	402	435	447	353
75°	189	214	258	292	305	200
85°	45	82	129	164	176	50
90°	13	46	90	124	136	8
95°	8	26	68	102	114	6
105°	4	6	34	61	71	4
115°	2	2	8	26	33	2
125°	1	0	0	2	6	0
135°	1	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.3	1027.3	1027.3	1027.3	1027.3
2.5°	1023.3	1024.9	1028.9	1029.7	1028.9
5°	1020.1	1021.7	1025.7	1026.5	1025.7
7.5°	1012.9	1015.3	1019.3	1020.9	1020.1
10°	1003.3	1005.7	1010.5	1012.1	1012.1
12.5°	990.5	993.7	999.3	1000.9	1001.7
15°	977.7	980.9	985.7	988.9	988.9
17.5°	961.7	964.1	970.5	974.5	975.3
20°	942.5	945.7	952.9	957.7	958.5
22.5°	921.7	925.7	932.9	938.5	939.3
25°	900.1	903.3	912.1	917.7	919.3
27.5°	876.1	879.3	888.9	894.5	896.9
30°	850.5	854.5	864.1	872.1	873.7
32.5°	822.5	827.3	836.9	844.9	848.1
35°	793.7	798.5	809.7	817.7	822.5
37.5°	763.3	768.1	779.3	790.5	795.3
40°	733.7	737.7	748.9	760.1	764.9
42.5°	700.1	705.7	717.7	731.3	737.7
45°	666.5	671.3	684.9	699.3	705.7
47.5°	633.7	638.5	652.1	667.3	674.5
50°	596.1	600.9	618.5	636.1	644.1
52.5°	558.5	564.1	582.5	604.1	612.1
55°	521.7	527.3	547.3	570.5	579.3
57.5°	478.4	489.6	511.2	536.9	548.9
60°	440.8	449.6	474.4	502.4	513.6
62.5°	398.4	409.6	438.4	468.8	480.0
65°	357.6	370.4	402.4	435.2	447.2
67.5°	315.2	328.8	367.2	400.0	410.4
70°	270.4	290.4	331.2	363.2	375.2
72.5°	230.4	251.2	293.6	327.2	342.4
75°	188.8	213.6	258.4	292.0	304.8
77.5°	147.2	176.8	224.8	256.8	271.2
80°	111.2	142.4	189.6	223.2	235.2
82.5°	73.6	110.4	157.6	192.0	204.8
85°	44.8	82.4	128.8	164.0	176.0
87.5°	22.4	60.0	107.2	140.8	154.4
90°	12.8	45.6	90.4	124.0	136.0
92.5°	10.4	35.2	79.2	112.0	124.8
95°	8.0	26.4	68.0	101.6	113.6
97.5°	6.4	19.2	59.2	91.2	103.2
100°	5.6	13.6	49.6	80.8	92.8
102.5°	4.8	8.8	41.6	70.4	81.6
105°	4.0	5.6	33.6	60.8	71.2
107.5°	3.2	3.2	25.6	51.2	60.8
110°	2.4	2.4	18.4	41.6	52.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	12.8	33.6	41.6
115°	1.6	1.6	8.0	25.6	32.8
117.5°	1.6	1.6	4.0	18.4	24.8
120°	0.8	0.8	1.6	12.0	17.6
122.5°	0.8	0.8	0.8	6.4	11.2
125°	0.8	0.0	0.0	2.4	5.6
127.5°	0.0	0.0	0.0	0.0	1.6
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.0	0.0	0.0	0.0
135°	0.8	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)