

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: P397341

Luminaire Tested: **8VRVT2-LD5-22-DR100-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-22-DR100-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17234.4 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

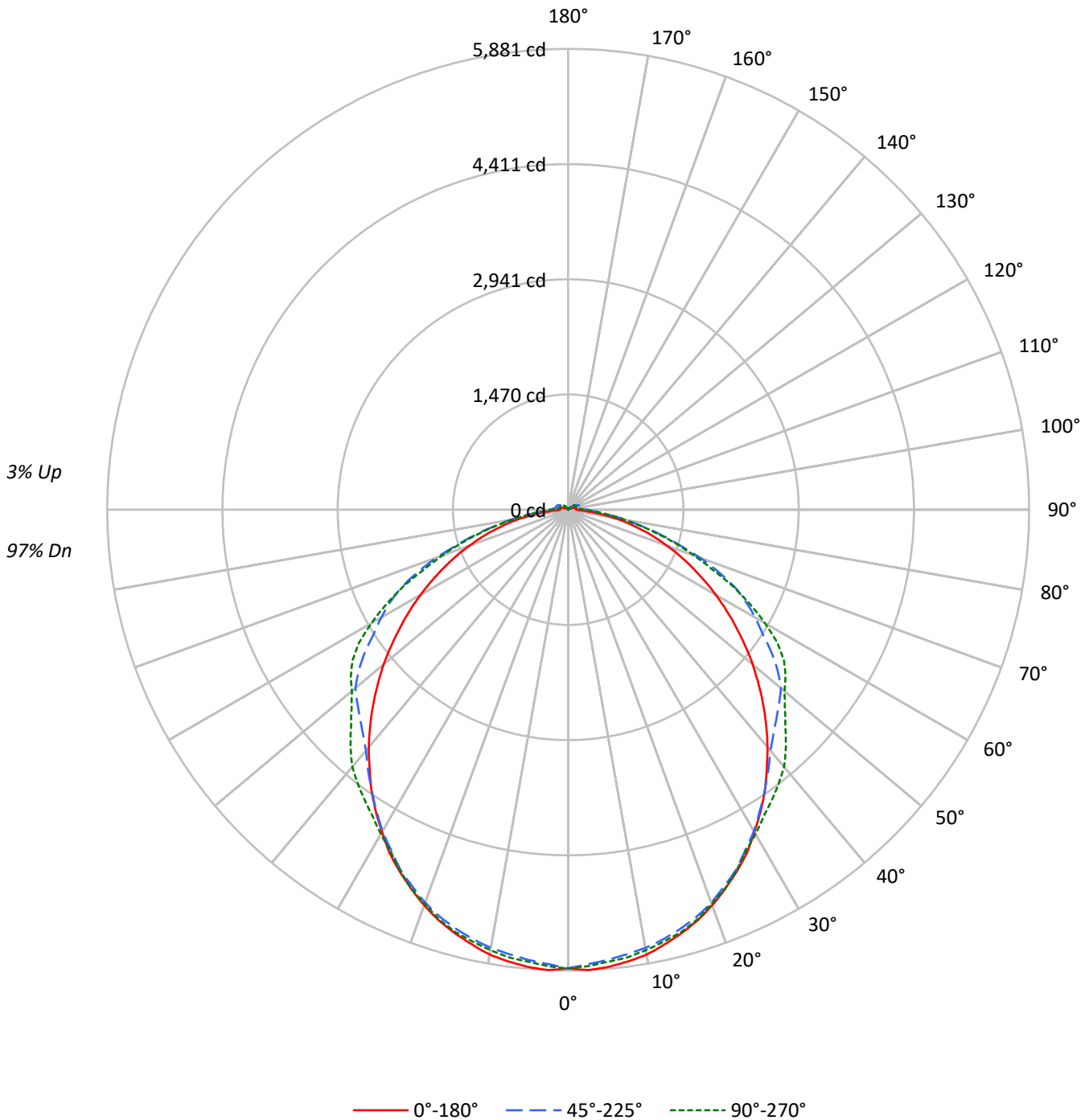
Input Watts (W): 392.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15121	15121	15121
5°	15163	14637	14591
10°	15071	14265	14139
15°	14882	13876	13694
20°	14663	13449	13126
25°	14381	12936	12531
30°	14005	12348	11959
35°	13607	11731	11577
40°	13123	11188	11292
45°	12606	10985	10733
50°	12067	10977	10358
55°	11456	10496	10254
60°	10861	9932	9494
65°	10223	9347	8267
70°	9568	7989	6744
75°	8838	6243	5209
80°	7823	4596	3681
85°	5954	3070	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	3.2
10°-20°	1569.3	9.1
20°-30°	2337.2	13.6
30°-40°	2765.5	16.0
40°-50°	2888.1	16.8
50°-60°	2717.1	15.8
60°-70°	2179.1	12.6
70°-80°	1264.7	7.3
80°-90°	450.5	2.6
90°-100°	175.8	1.0
100°-110°	132.3	0.8
110°-120°	100.5	0.6
120°-130°	61.6	0.4
130°-140°	30.1	0.2
140°-150°	9.9	0.1
150°-160°	1.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4457.7	25.9
0°-40°	7223.3	41.9
0°-60°	12828.5	74.4
0°-90°	16722.9	97.0
90°-120°	408.7	2.4
90°-150°	510.3	3.0
90°-180°	512.0	3.0
0°-180°	17234.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5853	5853	5853	5853	5853	
5°	5858	5826	5768	5797	5791	556
15°	5594	5552	5536	5592	5577	1578
25°	5092	5063	5067	5103	5080	2344
35°	4375	4369	4371	4467	4528	2732
45°	3520	3538	3758	3944	3917	2714
55°	2616	2746	3162	3277	3361	2342
65°	1744	2171	2348	2332	2319	1733
75°	952	1305	1209	1186	1171	1010
85°	247	404	399	391	385	276
90°	100	215	240	226	213	60
95°	102	159	178	157	142	83
105°	84	119	157	128	111	87
115°	44	75	136	121	105	45
125°	17	29	90	98	94	16
135°	8	6	42	67	69	6
145°	4	4	8	29	33	3
155°	2	2	2	2	4	1
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°	5853.4	5853.4	5853.4	5853.4	5853.4
2.5°	5880.6	5849.3	5803.3	5845.1	5830.5
5°	5857.6	5826.2	5767.7	5797.0	5790.7
7.5°	5815.8	5774.0	5721.7	5767.7	5763.5
10°	5765.6	5717.5	5677.8	5721.7	5707.0
12.5°	5682.0	5644.3	5615.0	5667.4	5644.3
15°	5594.2	5552.3	5535.6	5592.1	5577.4
17.5°	5493.8	5460.3	5447.8	5479.1	5481.2
20°	5372.5	5347.4	5336.9	5378.7	5353.7
22.5°	5234.4	5198.9	5201.0	5244.9	5232.3
25°	5092.2	5063.0	5067.1	5102.7	5079.7
27.5°	4937.4	4904.0	4895.7	4933.3	4910.3
30°	4749.3	4743.0	4736.7	4768.1	4780.6
32.5°	4567.4	4565.2	4552.7	4596.6	4640.5
35°	4375.0	4368.6	4370.7	4467.0	4527.6
37.5°	4161.6	4167.9	4193.0	4347.8	4408.4
40°	3956.6	3958.8	4013.1	4245.3	4285.0
42.5°	3739.2	3743.4	3875.1	4119.8	4111.4
45°	3519.6	3538.4	3758.0	3944.2	3917.0
47.5°	3291.7	3327.2	3649.3	3747.5	3749.7
50°	3074.2	3120.2	3544.7	3567.7	3601.2
52.5°	2842.0	2931.9	3369.0	3400.4	3494.5
55°	2616.2	2745.8	3162.0	3277.0	3360.6
57.5°	2394.5	2584.8	2938.2	3120.2	3166.2
60°	2174.9	2440.5	2754.2	2902.6	2898.5
62.5°	1959.5	2302.5	2561.8	2630.8	2620.3
65°	1744.1	2170.7	2348.5	2331.8	2319.2
67.5°	1545.4	1990.9	2076.6	2007.6	1986.7
70°	1336.3	1773.4	1783.8	1714.8	1710.6
72.5°	1148.1	1539.2	1476.4	1443.0	1445.0
75°	951.5	1305.0	1208.7	1185.8	1171.1
77.5°	767.5	1047.8	953.6	949.4	941.0
80°	585.5	807.2	746.6	727.8	715.2
82.5°	407.8	583.4	545.8	545.8	537.4
85°	246.8	403.6	399.4	391.0	384.8
87.5°	138.0	278.2	299.0	290.7	273.9
90°	100.4	215.4	240.5	225.8	213.3
92.5°	100.4	181.9	200.8	184.0	169.4
95°	102.5	159.0	177.8	156.9	142.2
97.5°	102.5	146.4	167.3	142.2	127.6
100°	98.3	135.9	161.0	133.8	117.1
102.5°	92.0	127.6	156.9	129.7	113.0
105°	83.7	119.2	156.9	127.6	110.8
107.5°	73.2	110.8	152.6	127.6	108.7
110°	62.7	100.4	150.6	125.4	108.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.4	87.8	144.3	123.4	106.6
115°	43.9	75.3	135.9	121.3	104.6
117.5°	35.5	62.7	125.4	117.1	102.5
120°	29.3	50.2	113.0	110.8	100.4
122.5°	20.9	37.7	102.5	106.6	98.3
125°	16.7	29.3	89.9	98.3	94.1
127.5°	14.6	18.8	77.4	92.0	89.9
130°	10.5	12.6	64.8	83.7	83.7
132.5°	8.4	8.4	52.3	75.3	77.4
135°	8.4	6.2	41.8	67.0	69.0
137.5°	6.2	6.2	33.4	56.5	60.6
140°	4.2	4.2	23.0	46.0	52.3
142.5°	4.2	4.2	14.6	37.7	41.8
145°	4.2	4.2	8.4	29.3	33.4
147.5°	4.2	2.1	4.2	20.9	25.1
150°	4.2	2.1	2.1	12.6	16.7
152.5°	2.1	2.1	2.1	6.2	10.5
155°	2.1	2.1	2.1	2.1	4.2
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)