

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: P397316

Luminaire Tested: **8VRVT2-LD5-12-FR50-UNV-LA59-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 8VRVT2-LD5-12-FR50-UNV-LA59-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436.2 lumens
Efficiency: N/A
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

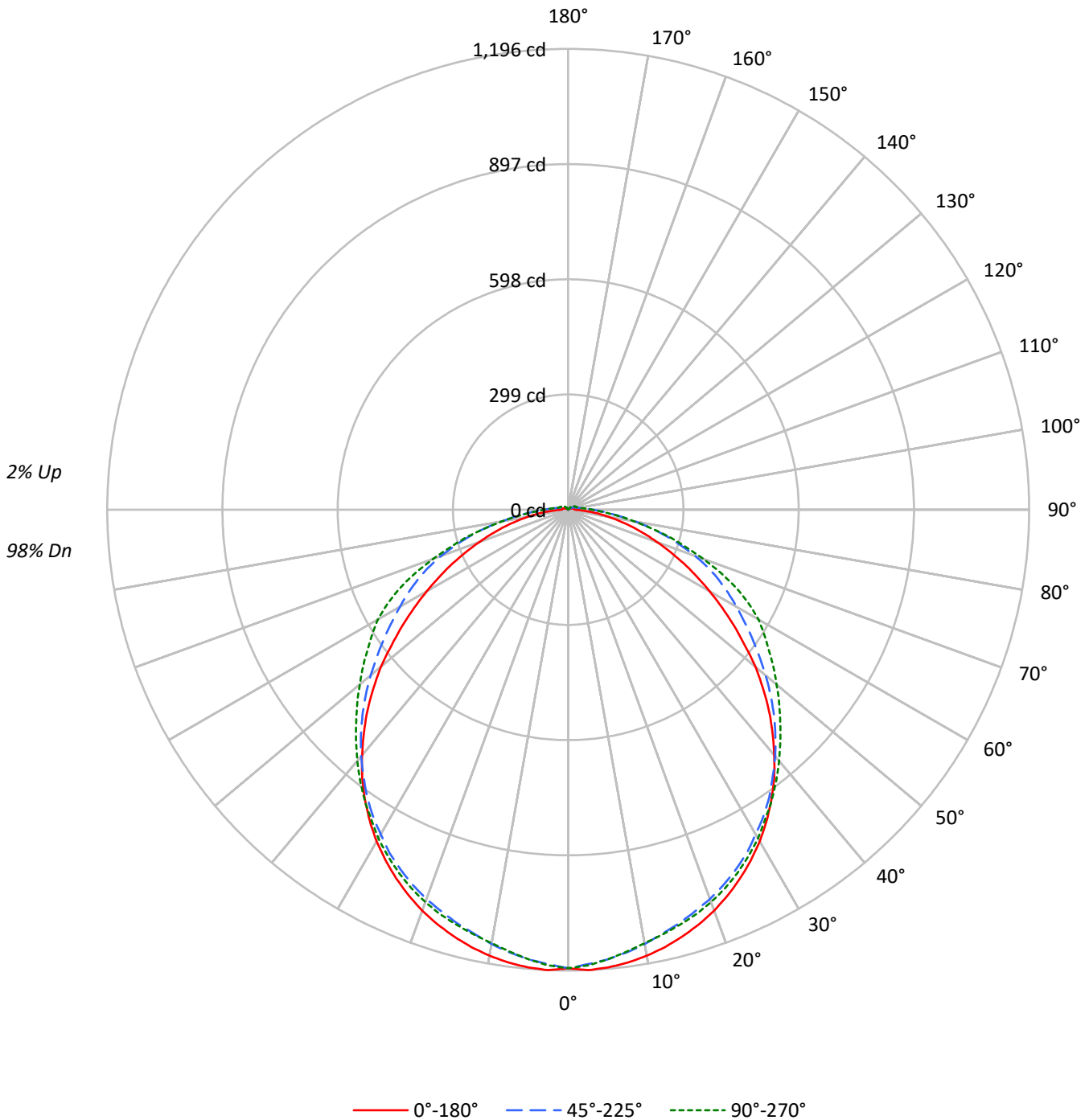
Input Watts (W): 154.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100	98
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	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	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	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3074	3074	3074
5°	3086	2973	2952
10°	3072	2876	2830
15°	3049	2786	2739
20°	3022	2709	2656
25°	2981	2629	2565
30°	2931	2536	2464
35°	2858	2441	2354
40°	2758	2329	2243
45°	2638	2207	2131
50°	2488	2071	2030
55°	2300	1935	1939
60°	2117	1817	1867
65°	1940	1716	1717
70°	1748	1568	1466
75°	1592	1351	1205
80°	1414	1082	894
85°	1269	823	635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.2
10°-20°	316.8	9.2
20°-30°	478.0	13.9
30°-40°	570.4	16.6
40°-50°	581.7	16.9
50°-60°	520.7	15.2
60°-70°	411.6	12.0
70°-80°	254.7	7.4
80°-90°	107.2	3.1
90°-100°	38.2	1.1
100°-110°	20.3	0.6
110°-120°	13.3	0.4
120°-130°	7.7	0.2
130°-140°	3.4	0.1
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	906.5	26.4
0°-40°	1476.9	43.0
0°-60°	2579.3	75.1
0°-90°	3352.8	97.6
90°-120°	71.8	2.1
90°-150°	83.5	2.4
90°-180°	83.0	2.4
0°-180°	3436.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1192	1183	1172	1175	1172	113
15°	1146	1128	1112	1118	1116	323
25°	1056	1033	1030	1041	1040	486
35°	919	902	909	921	921	574
45°	736	731	755	774	778	567
55°	525	537	583	624	636	470
65°	331	354	431	475	482	329
75°	171	207	262	272	271	182
85°	53	82	107	108	103	55
90°	17	43	64	64	62	11
95°	16	24	40	41	40	13
105°	12	12	21	24	24	13
115°	7	6	15	20	20	7
125°	3	2	9	14	16	3
135°	1	1	3	8	10	1
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°	1189.9	1189.9	1189.9	1189.9	1189.9
2.5°	1196.1	1189.4	1180.4	1186.6	1183.8
5°	1192.2	1183.2	1171.5	1175.4	1171.5
7.5°	1185.5	1174.3	1159.1	1160.8	1156.9
10°	1175.4	1161.9	1144.6	1146.3	1142.3
12.5°	1162.5	1146.3	1127.2	1133.4	1129.5
15°	1146.3	1127.8	1111.5	1118.3	1115.5
17.5°	1128.3	1108.2	1093.1	1103.7	1101.5
20°	1107.1	1084.7	1075.1	1085.2	1083.5
22.5°	1083.0	1058.9	1053.9	1065.1	1063.4
25°	1055.5	1033.1	1029.8	1041.0	1039.9
27.5°	1025.9	1002.3	1004.0	1013.5	1013.0
30°	993.9	973.2	972.7	985.5	985.0
32.5°	958.1	937.4	943.0	953.1	951.4
35°	918.9	902.1	909.4	920.6	920.6
37.5°	878.0	862.3	871.9	883.6	886.4
40°	831.6	819.8	835.5	849.5	851.1
42.5°	784.5	776.7	795.7	811.4	814.8
45°	736.4	730.8	754.9	773.9	777.8
47.5°	684.9	684.9	712.3	735.3	742.5
50°	633.9	633.9	668.6	697.2	705.6
52.5°	577.3	585.2	624.9	659.1	671.4
55°	525.3	537.0	582.9	624.4	635.6
57.5°	473.7	488.3	542.1	590.2	603.1
60°	423.9	443.5	504.0	555.5	570.1
62.5°	376.9	397.6	467.6	518.0	528.1
65°	330.9	353.9	431.2	475.4	481.6
67.5°	286.7	316.4	393.1	426.7	428.9
70°	244.2	278.9	350.0	375.2	371.8
72.5°	207.2	241.9	305.7	323.1	317.5
75°	171.4	207.2	261.5	271.6	271.0
77.5°	137.8	173.0	218.4	224.0	218.4
80°	105.8	141.1	175.8	178.6	173.6
82.5°	79.0	109.2	138.3	140.0	137.2
85°	52.6	82.3	107.0	107.5	103.0
87.5°	31.9	59.9	81.8	82.9	79.5
90°	17.4	43.1	63.8	64.4	62.2
92.5°	16.2	31.4	49.3	50.4	49.3
95°	15.7	24.1	39.8	40.9	39.8
97.5°	15.7	19.6	32.5	34.2	33.0
100°	14.6	16.2	27.4	29.1	28.6
102.5°	14.0	13.4	24.1	26.3	25.2
105°	12.3	11.8	21.3	24.1	23.5
107.5°	11.2	10.1	19.6	22.4	21.8
110°	9.5	9.0	17.9	21.3	21.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.8	7.3	16.2	20.2	20.2
115°	6.7	6.2	14.6	19.6	19.6
117.5°	5.6	5.0	13.4	18.5	19.0
120°	4.5	3.9	11.8	16.8	17.9
122.5°	3.9	2.8	10.1	15.7	16.8
125°	2.8	1.7	9.0	14.0	15.7
127.5°	2.2	1.7	7.3	12.3	14.0
130°	1.7	1.1	6.2	11.2	12.3
132.5°	1.7	1.1	4.5	9.5	10.6
135°	1.1	1.1	3.4	7.8	9.5
137.5°	1.1	0.6	2.2	6.2	7.8
140°	1.1	0.6	1.1	5.0	6.2
142.5°	0.6	0.6	0.6	3.4	4.5
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)