

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: P397342

Luminaire Tested: **8VRVT2-LD5-22-DR100-UNV-LR63-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397342
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-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.9 lumens
Efficiency: N/A
Efficacy: 8.1 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

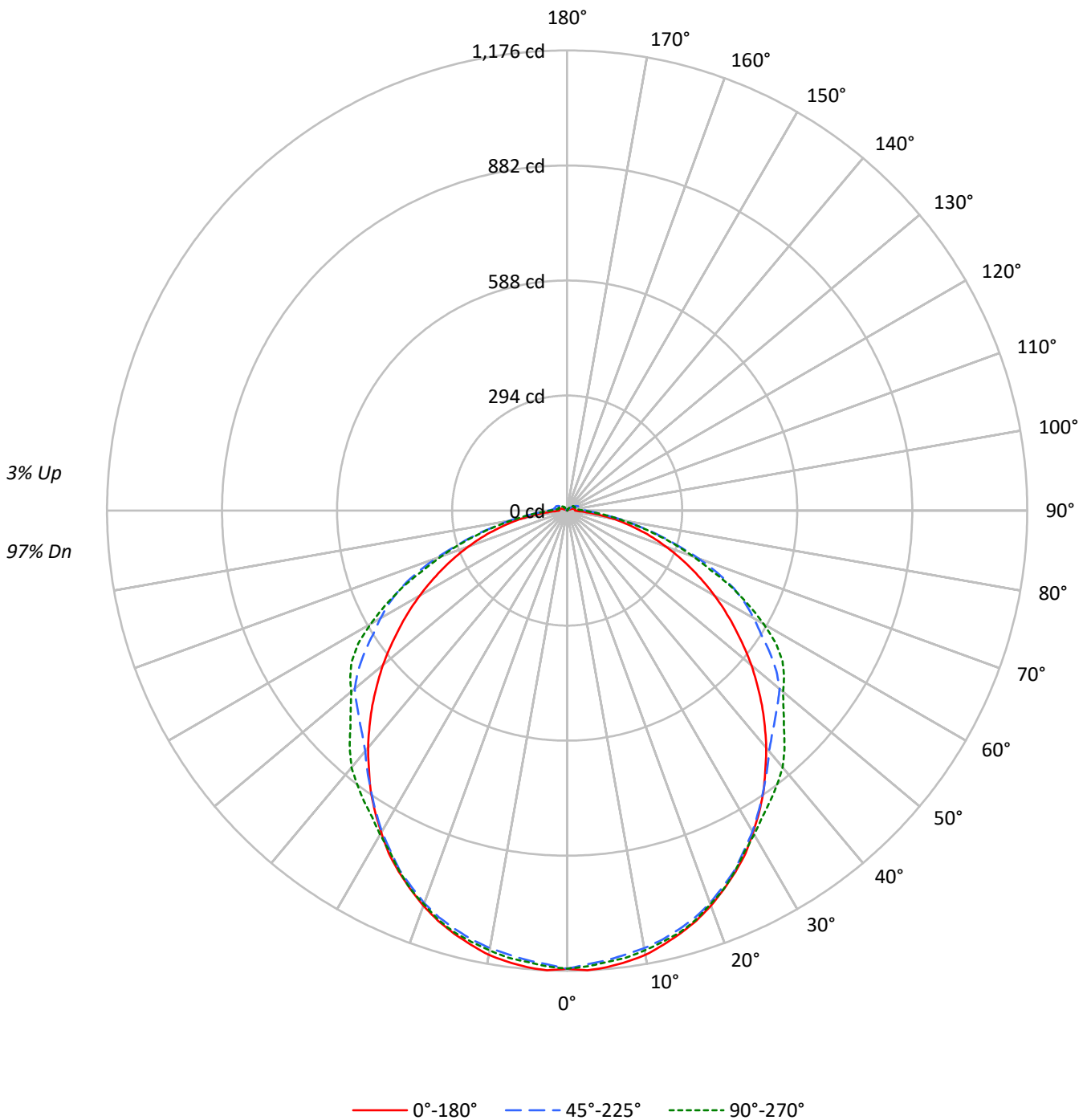
Input Watts (W): 427.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3024	3024	3024
5°	3033	2927	2918
10°	3014	2853	2828
15°	2976	2775	2739
20°	2933	2690	2625
25°	2876	2587	2506
30°	2801	2470	2392
35°	2721	2346	2315
40°	2624	2238	2258
45°	2521	2197	2147
50°	2413	2195	2072
55°	2291	2099	2051
60°	2172	1986	1899
65°	2044	1869	1653
70°	1914	1598	1349
75°	1768	1248	1042
80°	1565	919	736
85°	1192	614	474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.2
10°-20°	313.9	9.1
20°-30°	467.4	13.6
30°-40°	553.1	16.0
40°-50°	577.6	16.8
50°-60°	543.4	15.8
60°-70°	435.8	12.6
70°-80°	252.9	7.3
80°-90°	90.1	2.6
90°-100°	35.2	1.0
100°-110°	26.5	0.8
110°-120°	20.1	0.6
120°-130°	12.3	0.4
130°-140°	6.0	0.2
140°-150°	2.0	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	891.5	25.9
0°-40°	1444.6	41.9
0°-60°	2565.7	74.4
0°-90°	3344.6	97.0
90°-120°	81.8	2.4
90°-150°	102.1	3.0
90°-180°	102.0	3.0
0°-180°	3446.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1172	1165	1154	1159	1158	111
15°	1119	1110	1107	1118	1116	316
25°	1018	1013	1013	1020	1016	469
35°	875	874	874	893	906	546
45°	704	708	752	789	783	543
55°	523	549	632	655	672	468
65°	349	434	470	466	464	347
75°	190	261	242	237	234	202
85°	49	81	80	78	77	55
90°	20	43	48	45	43	12
95°	20	32	36	31	28	17
105°	17	24	31	26	22	17
115°	9	15	27	24	21	9
125°	3	6	18	20	19	3
135°	2	1	8	13	14	1
145°	1	1	2	6	7	1
155°	0	0	0	0	1	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°	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1176.1	1169.9	1160.7	1169.0	1166.1
5°	1171.5	1165.2	1153.5	1159.4	1158.1
7.5°	1163.2	1154.8	1144.3	1153.5	1152.7
10°	1153.1	1143.5	1135.6	1144.3	1141.4
12.5°	1136.4	1128.9	1123.0	1133.5	1128.9
15°	1118.8	1110.5	1107.1	1118.4	1115.5
17.5°	1098.8	1092.1	1089.6	1095.8	1096.2
20°	1074.5	1069.5	1067.4	1075.7	1070.7
22.5°	1046.9	1039.8	1040.2	1049.0	1046.5
25°	1018.4	1012.6	1013.4	1020.5	1015.9
27.5°	987.5	980.8	979.1	986.7	982.1
30°	949.9	948.6	947.3	953.6	956.1
32.5°	913.5	913.0	910.5	919.3	928.1
35°	875.0	873.7	874.1	893.4	905.5
37.5°	832.3	833.6	838.6	869.6	881.7
40°	791.3	791.8	802.6	849.1	857.0
42.5°	747.8	748.7	775.0	824.0	822.3
45°	703.9	707.7	751.6	788.8	783.4
47.5°	658.3	665.4	729.9	749.5	749.9
50°	614.8	624.0	708.9	713.5	720.2
52.5°	568.4	586.4	673.8	680.1	698.9
55°	523.2	549.2	632.4	655.4	672.1
57.5°	478.9	517.0	587.6	624.0	633.2
60°	435.0	488.1	550.8	580.5	579.7
62.5°	391.9	460.5	512.4	526.2	524.1
65°	348.8	434.1	469.7	466.4	463.8
67.5°	309.1	398.2	415.3	401.5	397.3
70°	267.3	354.7	356.8	343.0	342.1
72.5°	229.6	307.8	295.3	288.6	289.0
75°	190.3	261.0	241.7	237.2	234.2
77.5°	153.5	209.6	190.7	189.9	188.2
80°	117.1	161.4	149.3	145.6	143.0
82.5°	81.6	116.7	109.2	109.2	107.5
85°	49.4	80.7	79.9	78.2	77.0
87.5°	27.6	55.6	59.8	58.1	54.8
90°	20.1	43.1	48.1	45.2	42.7
92.5°	20.1	36.4	40.2	36.8	33.9
95°	20.5	31.8	35.6	31.4	28.4
97.5°	20.5	29.3	33.5	28.4	25.5
100°	19.7	27.2	32.2	26.8	23.4
102.5°	18.4	25.5	31.4	25.9	22.6
105°	16.7	23.8	31.4	25.5	22.2
107.5°	14.6	22.2	30.5	25.5	21.7
110°	12.5	20.1	30.1	25.1	21.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.9	17.6	28.9	24.7	21.3
115°	8.8	15.1	27.2	24.3	20.9
117.5°	7.1	12.5	25.1	23.4	20.5
120°	5.9	10.0	22.6	22.2	20.1
122.5°	4.2	7.5	20.5	21.3	19.7
125°	3.3	5.9	18.0	19.7	18.8
127.5°	2.9	3.8	15.5	18.4	18.0
130°	2.1	2.5	13.0	16.7	16.7
132.5°	1.7	1.7	10.5	15.1	15.5
135°	1.7	1.2	8.4	13.4	13.8
137.5°	1.2	1.2	6.7	11.3	12.1
140°	0.8	0.8	4.6	9.2	10.5
142.5°	0.8	0.8	2.9	7.5	8.4
145°	0.8	0.8	1.7	5.9	6.7
147.5°	0.8	0.4	0.8	4.2	5.0
150°	0.8	0.4	0.4	2.5	3.3
152.5°	0.4	0.4	0.4	1.2	2.1
155°	0.4	0.4	0.4	0.4	0.8
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)