

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: P397336

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
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-DR-UNV-LR63-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.2 lumens
Efficiency: N/A
Efficacy: 8.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

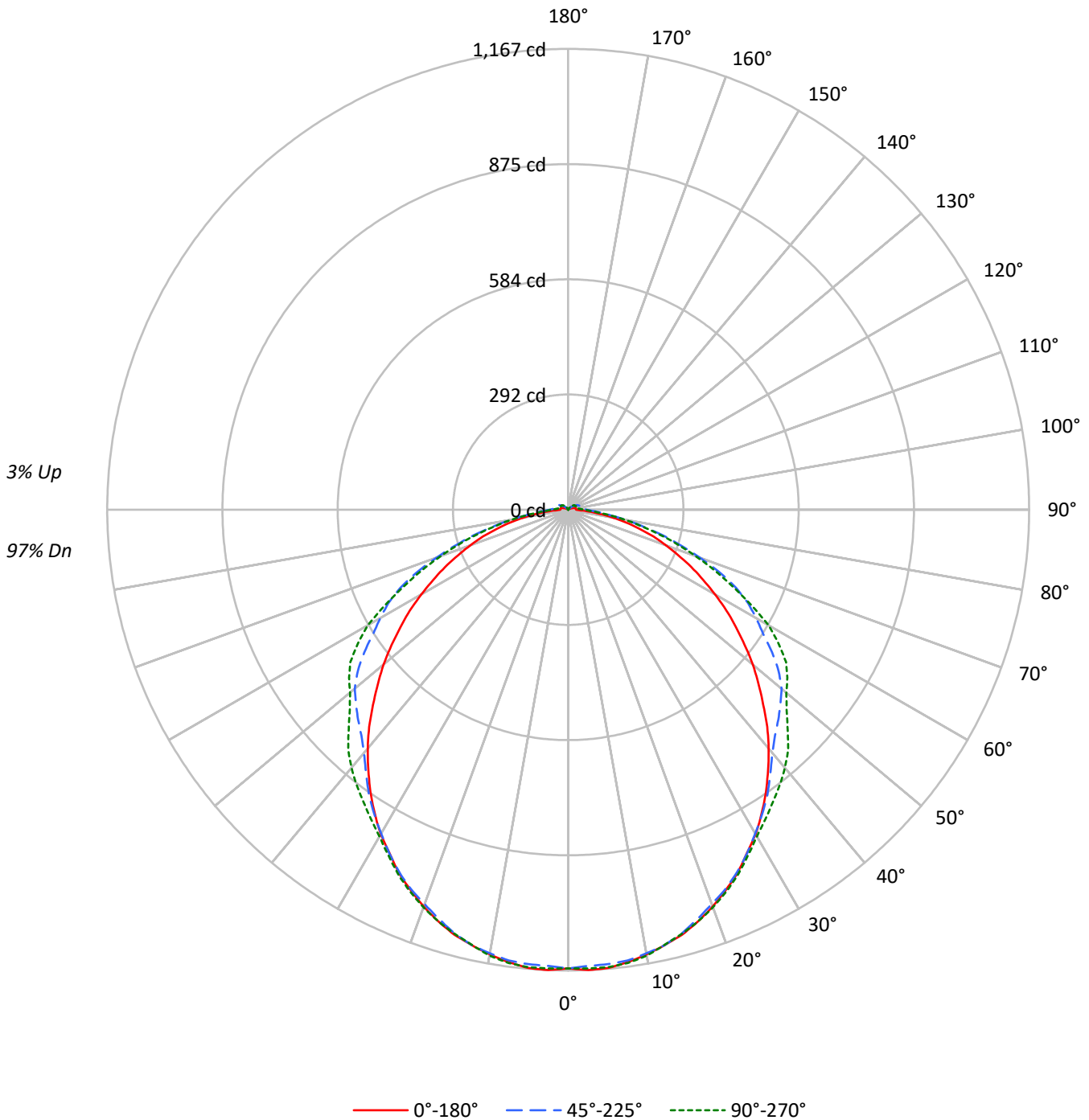
Input Watts (W): 427.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	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	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	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°	3001	3001	3001
5°	3015	2932	2930
10°	2989	2866	2842
15°	2964	2785	2729
20°	2919	2678	2627
25°	2866	2585	2514
30°	2799	2469	2390
35°	2714	2361	2310
40°	2618	2241	2248
45°	2502	2198	2152
50°	2395	2184	2073
55°	2269	2092	2054
60°	2143	1980	1918
65°	2015	1868	1635
70°	1884	1583	1352
75°	1732	1262	1047
80°	1537	906	747
85°	1252	620	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.2
10°-20°	314.1	9.1
20°-30°	468.1	13.6
30°-40°	553.8	16.1
40°-50°	576.5	16.7
50°-60°	542.4	15.8
60°-70°	434.6	12.6
70°-80°	252.5	7.3
80°-90°	89.1	2.6
90°-100°	34.4	1.0
100°-110°	26.1	0.8
110°-120°	19.9	0.6
120°-130°	12.1	0.4
130°-140°	5.9	0.2
140°-150°	1.9	0.1
150°-160°	0.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	892.5	25.9
0°-40°	1446.3	42.0
0°-60°	2565.2	74.5
0°-90°	3341.4	97.1
90°-120°	80.4	2.3
90°-150°	100.4	2.9
90°-180°	101.0	2.9
0°-180°	3442.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1165	1160	1155	1165	1163	110
15°	1114	1118	1111	1113	1112	314
25°	1015	1018	1013	1020	1019	467
35°	872	875	880	895	903	545
45°	698	706	752	789	786	540
55°	518	549	630	658	673	464
65°	344	430	469	465	459	341
75°	186	258	244	239	236	198
85°	52	79	81	78	73	55
90°	20	43	46	44	41	12
95°	20	31	35	30	28	16
105°	16	23	31	26	22	17
115°	8	15	27	24	21	9
125°	3	5	18	20	19	3
135°	1	1	8	13	14	1
145°	1	0	2	5	7	0
155°	0	0	0	0	1	0
165°	0	0	0	0	0	0
175°	1	1	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°	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1166.9	1162.8	1156.5	1164.8	1162.8
5°	1164.8	1159.8	1155.2	1165.3	1162.8
7.5°	1155.6	1154.8	1151.5	1159.8	1157.7
10°	1143.5	1146.0	1140.6	1147.3	1146.9
12.5°	1129.3	1135.6	1129.3	1131.0	1128.5
15°	1114.2	1118.0	1110.9	1113.0	1111.7
17.5°	1093.3	1098.8	1087.1	1097.5	1093.3
20°	1069.5	1074.9	1062.8	1074.5	1071.6
22.5°	1042.7	1047.7	1040.2	1048.6	1046.5
25°	1014.7	1018.0	1012.6	1020.1	1018.9
27.5°	980.0	987.9	980.8	990.0	986.3
30°	949.0	952.0	946.9	958.2	955.3
32.5°	911.8	913.9	913.9	923.9	929.0
35°	872.5	874.6	879.6	894.7	903.4
37.5°	831.1	835.7	840.3	870.0	879.6
40°	789.3	792.6	803.9	847.0	853.2
42.5°	745.8	749.1	775.0	822.3	824.4
45°	698.5	705.6	752.0	788.8	785.5
47.5°	653.7	662.5	728.6	746.2	749.5
50°	610.2	620.3	705.2	711.9	720.7
52.5°	563.4	582.6	671.7	680.9	699.3
55°	518.2	548.8	630.3	657.5	673.0
57.5°	475.1	514.9	585.2	627.4	631.6
60°	429.1	486.0	549.2	585.2	585.6
62.5°	385.2	458.4	513.6	527.4	521.6
65°	343.8	430.0	469.3	465.1	458.8
67.5°	301.6	393.6	414.5	405.3	401.1
70°	263.1	354.3	353.4	345.5	343.0
72.5°	226.3	305.3	297.0	289.9	287.8
75°	186.5	258.5	244.3	238.8	235.5
77.5°	150.6	210.0	190.7	188.6	186.1
80°	115.0	160.2	147.2	147.6	145.1
82.5°	79.5	115.0	107.9	107.1	104.1
85°	51.9	79.1	80.7	77.8	73.2
87.5°	28.0	55.2	59.0	56.9	53.5
90°	19.7	42.7	46.4	43.9	41.0
92.5°	19.7	36.0	39.3	35.6	33.0
95°	20.1	31.4	35.1	30.5	28.0
97.5°	20.1	28.4	32.6	27.6	24.7
100°	19.2	26.8	31.8	26.4	23.4
102.5°	18.0	25.1	31.4	25.5	22.6
105°	16.3	23.4	30.9	25.5	21.7
107.5°	14.2	21.7	30.5	25.1	21.7
110°	12.1	19.7	29.7	25.1	21.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.5	17.6	28.4	24.7	21.3
115°	8.4	15.1	26.8	23.8	20.9
117.5°	6.7	12.5	24.7	23.0	20.5
120°	5.4	10.0	22.6	22.2	20.1
122.5°	4.2	7.5	20.1	20.9	19.2
125°	3.3	5.4	17.6	19.7	18.8
127.5°	2.5	3.8	15.1	18.4	17.6
130°	2.1	2.1	12.5	16.7	16.3
132.5°	1.7	1.7	10.5	15.1	15.5
135°	1.2	1.2	8.4	13.0	13.8
137.5°	1.2	0.8	6.3	11.3	12.1
140°	0.8	0.8	4.6	9.2	10.0
142.5°	0.8	0.8	2.9	7.5	8.4
145°	0.8	0.4	1.7	5.4	6.7
147.5°	0.8	0.4	0.8	3.8	5.0
150°	0.4	0.4	0.4	2.5	3.3
152.5°	0.4	0.4	0.4	1.2	1.7
155°	0.4	0.4	0.4	0.4	0.8
157.5°	0.4	0.4	0.4	0.4	0.0
160°	0.4	0.4	0.4	0.4	0.0
162.5°	0.4	0.4	0.4	0.4	0.0
165°	0.4	0.4	0.4	0.4	0.0
167.5°	0.8	0.4	0.4	0.4	0.0
170°	0.8	0.4	0.4	0.4	0.0
172.5°	0.8	0.8	0.4	0.4	0.0
175°	0.8	0.8	0.4	0.4	0.4
177.5°	0.8	0.8	0.4	0.4	0.4
180°	0.4	0.4	0.4	0.4	0.4

(END OF REPORT)