

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: P397303

Luminaire Tested: **4VRVT3-LD5-8-G-UNV-LR63-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 4VRVT3-LD5-8-G-UNV-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

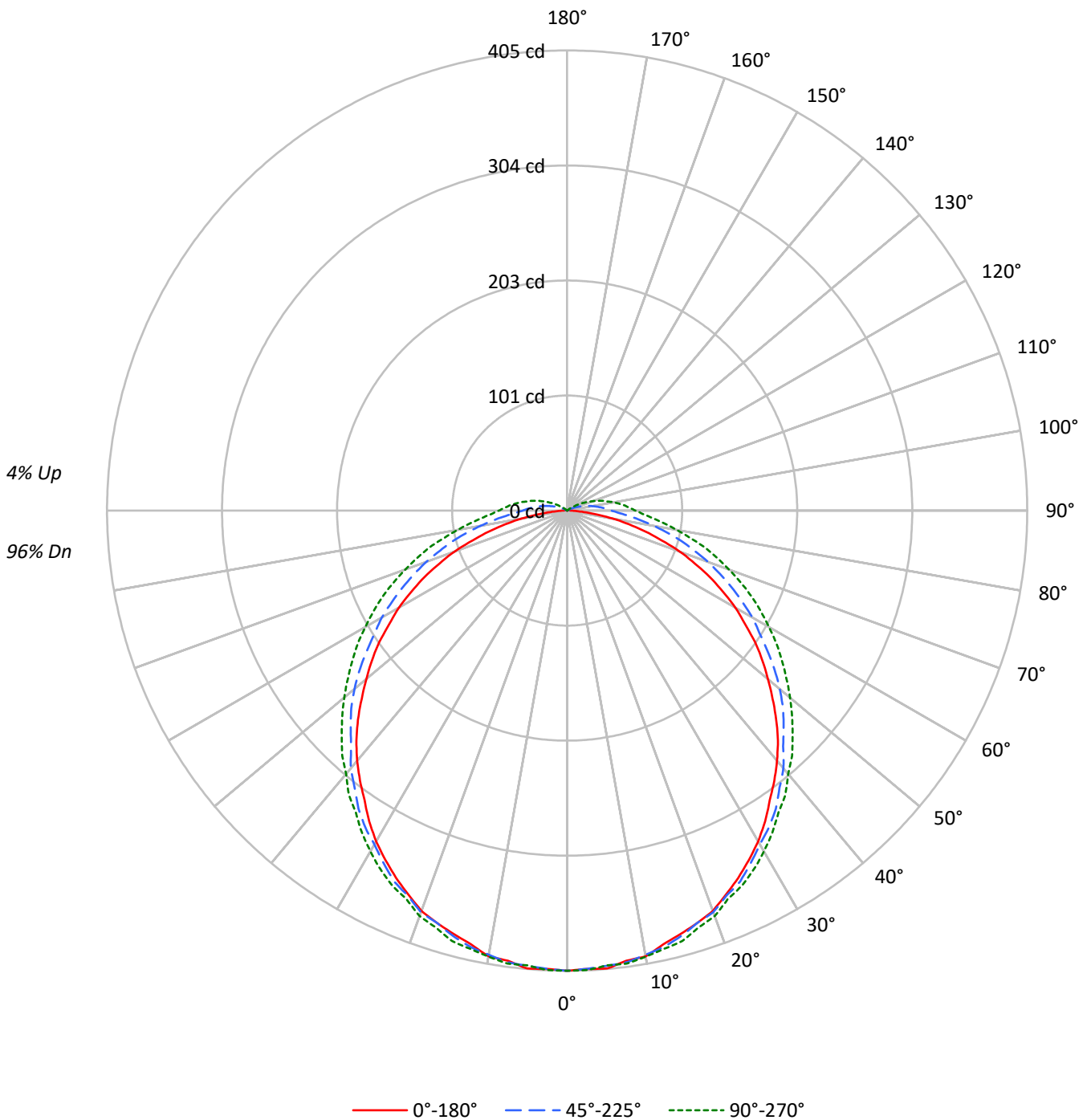
Lumens per Lamp: N/A
Luminaire Lumens: 1292.9 lumens
Efficiency: N/A
Efficacy: 7.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 173.8
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	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	85	74	66	60	71	64	58	67	62	57	64	59	55	53
4	80	67	58	51	77	66	57	51	63	55	50	60	54	48	57	52	47	45
5	73	60	51	44	71	59	50	44	56	48	43	54	47	42	51	46	41	39
6	68	54	45	38	65	53	44	38	51	43	37	48	42	37	46	41	36	34
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	57	44	35	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	33	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2616	2616	2616
5°	2565	2227	2137
10°	2498	1937	1814
15°	2411	1702	1570
20°	2354	1512	1367
25°	2265	1344	1198
30°	2180	1189	1057
35°	2074	1067	930
40°	1988	947	824
45°	1886	833	732
50°	1769	738	647
55°	1657	640	569
60°	1524	555	497
65°	1360	470	430
70°	1162	391	364
75°	905	314	303
80°	613	238	240
85°	272	172	189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.0
10°-20°	109.4	8.5
20°-30°	165.7	12.8
30°-40°	199.7	15.4
40°-50°	208.6	16.1
50°-60°	193.6	15.0
60°-70°	158.0	12.2
70°-80°	107.3	8.3
80°-90°	57.0	4.4
90°-100°	31.1	2.4
100°-110°	16.7	1.3
110°-120°	6.5	0.5
120°-130°	1.1	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°	313.4	24.2
0°-40°	513.1	39.7
0°-60°	915.2	70.8
0°-90°	1237.5	95.7
90°-120°	54.3	4.2
90°-150°	55.5	4.3
90°-180°	55.0	4.3
0°-180°	1292.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	405	400	402	404	402	38
15°	386	387	388	388	392	109
25°	356	357	360	361	364	164
35°	311	314	320	324	324	195
45°	260	264	269	277	280	201
55°	202	208	215	227	231	180
65°	139	145	160	174	179	137
75°	72	84	104	119	125	76
85°	15	33	54	70	76	18
90°	4	19	39	55	60	2
95°	2	11	30	45	51	2
105°	1	2	15	28	33	1
115°	0	0	4	13	16	0
125°	0	0	0	2	4	0
135°	0	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°	405.0	405.0	405.0	405.0	405.0
2.5°	403.7	406.7	403.7	403.4	404.8
5°	404.6	399.8	402.2	403.7	401.8
7.5°	399.5	401.8	401.0	399.4	402.1
10°	398.4	395.2	397.0	396.3	398.6
12.5°	391.0	390.6	393.4	392.0	395.0
15°	385.8	387.2	387.7	388.2	392.2
17.5°	380.6	381.4	380.6	382.1	384.6
20°	374.9	372.5	376.2	377.1	379.8
22.5°	365.6	365.9	366.7	370.4	369.9
25°	356.5	357.4	360.2	361.3	364.2
27.5°	346.6	346.2	349.9	353.1	356.0
30°	336.2	337.4	339.2	345.8	346.4
32.5°	324.3	325.3	330.7	334.4	336.2
35°	311.0	314.2	320.2	324.5	324.3
37.5°	299.5	302.6	307.2	312.5	315.5
40°	287.4	289.9	296.2	301.1	302.6
42.5°	274.6	276.8	281.4	288.8	293.0
45°	260.3	263.8	269.3	277.0	280.5
47.5°	245.3	250.7	257.8	264.2	268.5
50°	230.7	236.2	244.3	251.8	256.2
52.5°	216.6	221.9	230.2	239.8	243.4
55°	201.9	207.5	215.2	226.6	231.0
57.5°	185.3	191.7	200.8	215.2	218.7
60°	171.2	175.8	188.3	201.3	205.1
62.5°	154.7	162.1	173.8	188.5	192.3
65°	138.7	145.4	159.5	174.2	179.2
67.5°	121.6	129.8	145.4	160.2	165.4
70°	105.6	114.1	131.8	146.4	151.5
72.5°	87.2	98.7	117.3	133.4	138.4
75°	71.5	83.5	104.3	119.2	125.3
77.5°	55.8	69.9	90.7	105.8	110.7
80°	40.8	56.0	77.3	93.8	97.9
82.5°	26.1	43.8	65.3	81.0	85.8
85°	14.6	32.6	54.2	70.1	75.5
87.5°	7.0	24.5	45.3	61.4	66.4
90°	3.5	18.6	39.0	54.7	60.0
92.5°	2.7	14.7	34.7	49.9	54.9
95°	2.2	11.0	30.4	45.1	51.0
97.5°	1.9	8.3	26.4	41.1	46.1
100°	1.4	5.6	22.4	36.5	41.8
102.5°	1.3	3.7	18.9	32.2	36.6
105°	1.1	2.1	15.2	27.8	33.0
107.5°	0.8	1.1	12.0	24.0	28.6
110°	0.6	0.8	9.1	19.8	24.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	6.4	16.2	20.0
115°	0.5	0.3	4.2	12.6	16.2
117.5°	0.3	0.3	2.2	9.4	12.6
120°	0.2	0.2	0.8	6.4	9.3
122.5°	0.2	0.2	0.2	4.2	6.2
125°	0.2	0.0	0.0	2.2	3.8
127.5°	0.2	0.0	0.0	0.5	1.8
130°	0.2	0.0	0.0	0.0	0.3
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	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)