

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283873

Luminaire Tested: **LDA2B059730D010 EU2B05WFL559730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059730D010 EU2B05WFL559730 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 498.2 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

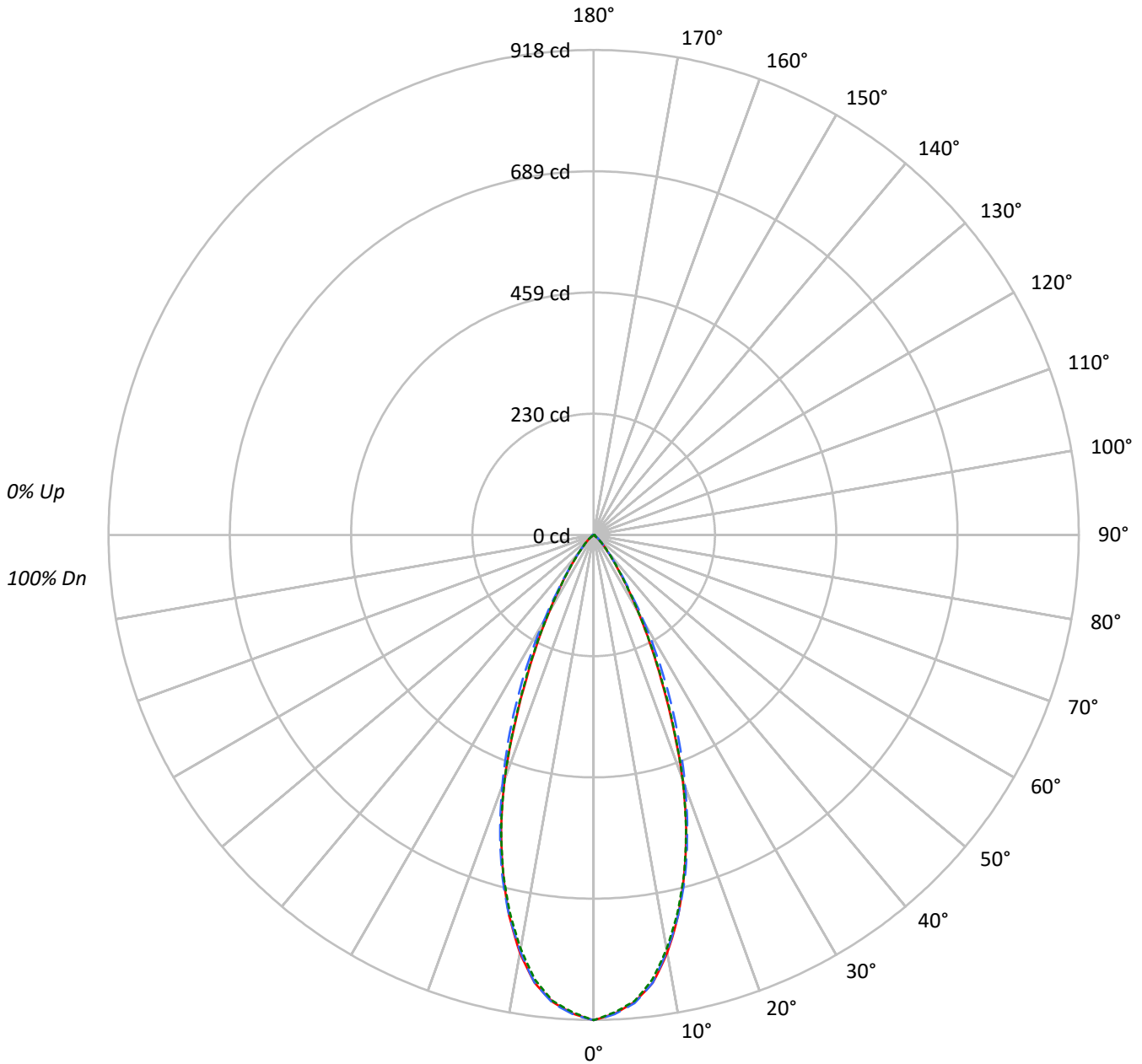
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89	94	92	90	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	90	87	85	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	86	83	81	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	82	79	76	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	78	75	72	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	76	72	69	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	72	68	65	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	69	65	62	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	66	62	60	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	453153	453153	453153
5°	439531	440571	438590
10°	402331	400728	398323
15°	338433	341549	337872
20°	258785	265662	258365
25°	164344	185302	167555
30°	95593	107898	97245
35°	50532	53724	50712
40°	26663	27887	26663
45°	14931	15489	15071
50°	6985	8827	6985
55°	2494	4817	2752
60°	2861	2861	2861
65°	3152	3385	3152
70°	3895	3462	3895
75°	3622	3622	3622
80°	3694	3125	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	16.5
10°-20°	182.6	36.6
20°-30°	147.4	29.6
30°-40°	58.3	11.7
40°-50°	17.9	3.6
50°-60°	4.6	0.9
60°-70°	2.8	0.6
70°-80°	2.0	0.4
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
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°	412.0	82.7
0°-40°	470.3	94.4
0°-60°	492.7	98.9
0°-90°	498.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	498.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	888	889	890	888	886	82
15°	663	664	669	666	662	182
25°	302	316	340	322	308	141
35°	84	86	89	87	84	56
45°	21	22	22	22	22	17
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.5	918.5	918.5	918.5	918.5
2.5°	907.0	907.5	908.3	907.3	904.6
5°	887.5	889.1	889.6	887.8	885.6
7.5°	855.4	853.6	855.2	852.0	849.3
10°	803.1	800.7	799.9	795.1	795.1
12.5°	738.4	737.6	738.2	735.8	732.0
15°	662.6	664.4	668.7	666.0	661.5
17.5°	582.1	584.8	588.6	587.7	581.6
20°	492.9	500.7	506.0	500.9	492.1
22.5°	391.4	408.0	421.6	410.9	396.5
25°	301.9	316.3	340.4	322.2	307.8
27.5°	229.0	239.4	261.3	243.4	233.5
30°	167.8	174.2	189.4	177.7	170.7
32.5°	120.0	124.5	130.9	124.0	120.5
35°	83.9	86.3	89.2	86.6	84.2
37.5°	59.0	59.8	62.0	59.8	58.8
40°	41.4	41.7	43.3	41.9	41.4
42.5°	29.9	29.9	30.7	30.2	29.9
45°	21.4	21.6	22.2	21.9	21.6
47.5°	15.2	15.8	15.8	16.0	15.0
50°	9.1	11.2	11.5	11.2	9.1
52.5°	4.8	6.7	8.3	6.7	4.8
55°	2.9	4.0	5.6	4.0	3.2
57.5°	2.9	2.9	3.7	3.2	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.7	2.9	2.9	2.9	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.4	2.7	2.7
72.5°	2.4	2.4	2.1	2.4	2.4
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.1	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)