

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: P283957

Luminaire Tested: **LDA2B109730D010 EU2B10WFL559730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283957
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: LDA2B109730D010 EU2B10WFL559730 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 676.8 lumens
Efficiency: N/A
Efficacy: 67.7 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

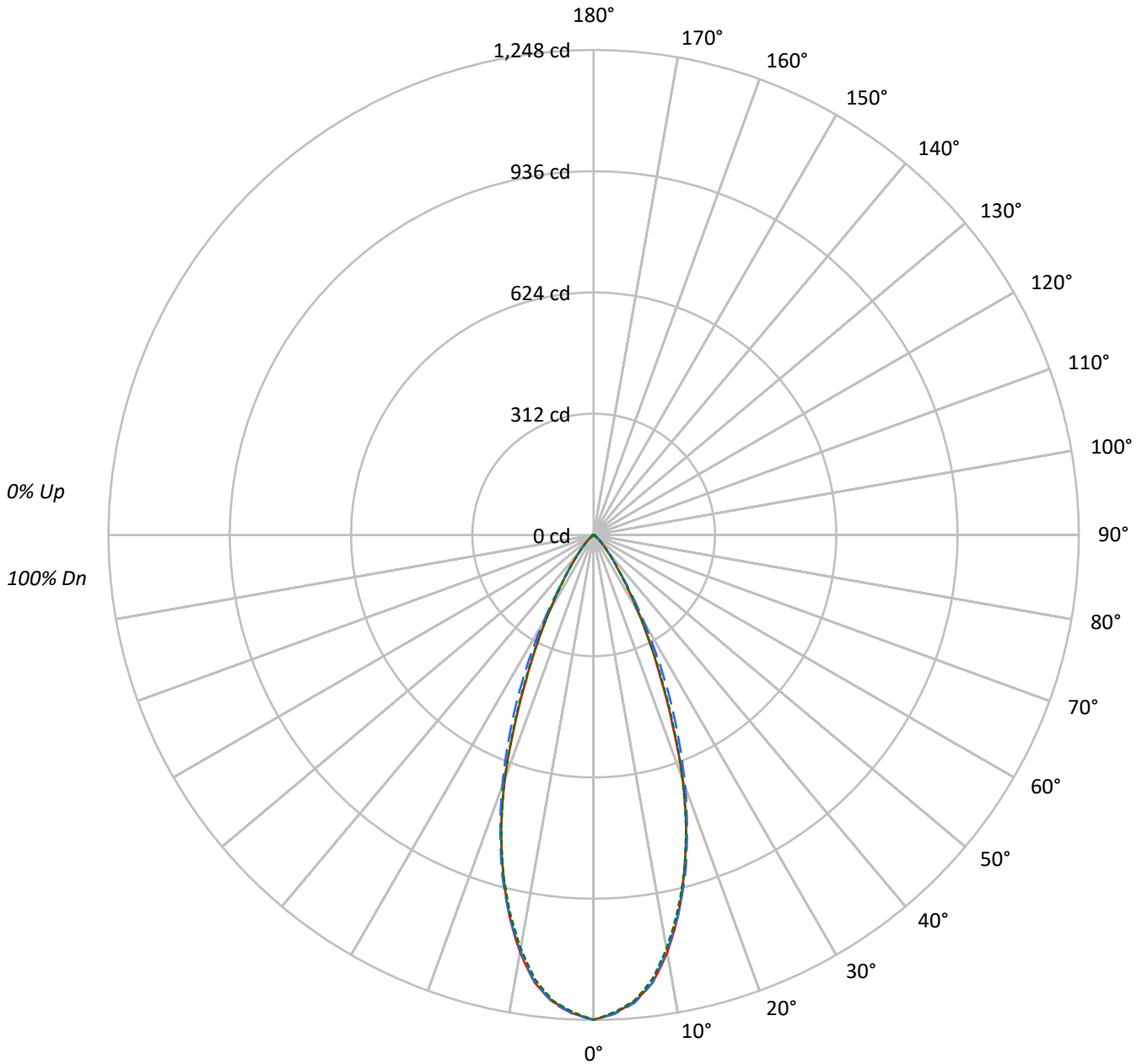
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	615617	615617	615617
5°	597119	598555	595880
10°	546561	544407	541101
15°	459740	464031	459025
20°	351557	360902	351031
25°	223244	251714	227599
30°	129831	146580	132110
35°	68660	72997	68841
40°	36259	37869	36259
45°	20234	21001	20513
50°	9441	11974	9441
55°	3441	6537	3785
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4760	5193
75°	4766	4766	4766
80°	5114	4262	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	16.5
10°-20°	248.0	36.6
20°-30°	200.3	29.6
30°-40°	79.2	11.7
40°-50°	24.3	3.6
50°-60°	6.3	0.9
60°-70°	3.8	0.6
70°-80°	2.8	0.4
80°-90°	0.8	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°	559.7	82.7
0°-40°	638.8	94.4
0°-60°	669.4	98.9
0°-90°	676.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1206	1208	1209	1206	1203	112
15°	900	903	908	905	899	247
25°	410	430	462	438	418	191
35°	114	117	121	118	114	76
45°	29	29	30	30	29	24
55°	4	5	8	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.8	1247.8	1247.8	1247.8	1247.8
2.5°	1232.2	1232.9	1234.0	1232.6	1229.0
5°	1205.7	1207.9	1208.6	1206.1	1203.2
7.5°	1162.2	1159.6	1161.8	1157.5	1153.8
10°	1091.0	1087.8	1086.7	1080.1	1080.1
12.5°	1003.2	1002.1	1002.8	999.6	994.5
15°	900.1	902.7	908.5	904.8	898.7
17.5°	790.9	794.5	799.6	798.5	790.1
20°	669.6	680.2	687.4	680.5	668.6
22.5°	531.7	554.2	572.7	558.2	538.6
25°	410.1	429.7	462.4	437.7	418.1
27.5°	311.0	325.2	355.0	330.6	317.2
30°	227.9	236.6	257.3	241.4	231.9
32.5°	163.0	169.1	177.8	168.4	163.7
35°	114.0	117.2	121.2	117.6	114.3
37.5°	80.2	81.3	84.2	81.3	79.8
40°	56.3	56.6	58.8	57.0	56.3
42.5°	40.7	40.7	41.7	41.0	40.7
45°	29.0	29.4	30.1	29.8	29.4
47.5°	20.7	21.4	21.4	21.8	20.3
50°	12.3	15.2	15.6	15.2	12.3
52.5°	6.5	9.1	11.3	9.1	6.5
55°	4.0	5.4	7.6	5.4	4.4
57.5°	4.0	4.0	5.1	4.4	4.0
60°	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.6	4.0	4.0	4.0	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.5	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)