

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: P283913

Luminaire Tested: **LDA2B109024D010 EU2B10WFL559024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283913
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: LDA2B109024D010 EU2B10WFL559024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.2 lumens
Efficiency: N/A
Efficacy: 67.0 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

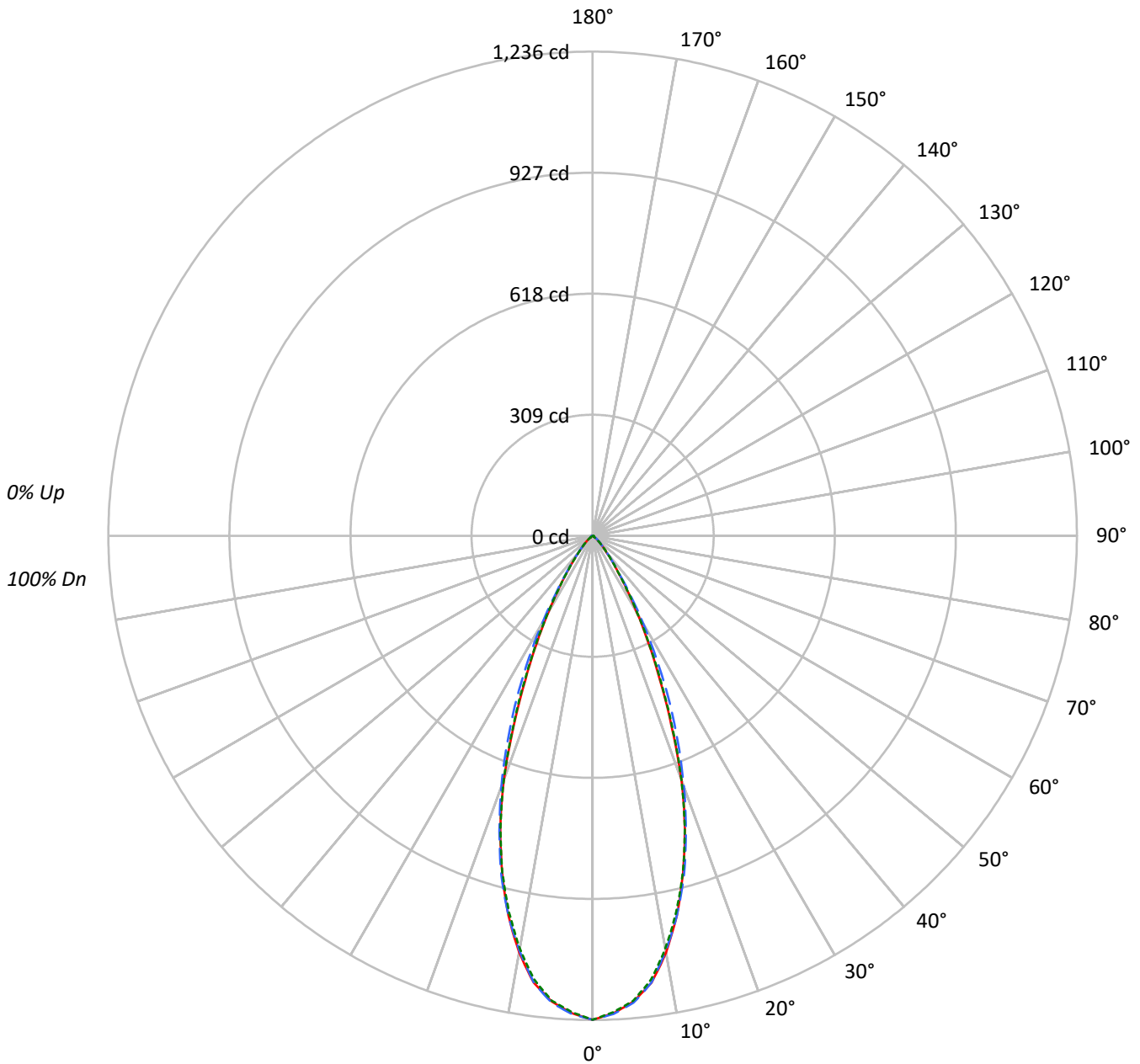
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	609548	609548	609548
5°	591225	592661	589987
10°	541151	538997	535790
15°	455194	459434	454479
20°	348091	357332	347514
25°	221066	249210	225367
30°	128578	145156	130800
35°	67938	72274	68178
40°	35873	37483	35873
45°	20025	20792	20304
50°	9364	11897	9364
55°	3441	6451	3699
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4616	5193
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	16.5
10°-20°	245.6	36.6
20°-30°	198.3	29.6
30°-40°	78.4	11.7
40°-50°	24.1	3.6
50°-60°	6.2	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°	554.2	82.7
0°-40°	632.5	94.4
0°-60°	662.8	98.9
0°-90°	670.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1194	1196	1197	1194	1191	110
15°	891	894	900	896	890	245
25°	406	426	458	433	414	189
35°	113	116	120	116	113	76
45°	29	29	30	30	29	23
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°	1235.5	1235.5	1235.5	1235.5	1235.5
2.5°	1220.0	1220.7	1221.8	1220.4	1216.8
5°	1193.8	1196.0	1196.7	1194.2	1191.3
7.5°	1150.7	1148.2	1150.3	1146.0	1142.4
10°	1080.2	1077.0	1075.9	1069.5	1069.5
12.5°	993.3	992.2	992.9	989.7	984.6
15°	891.2	893.7	899.5	895.9	889.8
17.5°	783.0	786.6	791.7	790.6	782.3
20°	663.0	673.4	680.6	673.8	661.9
22.5°	526.5	548.7	567.1	552.7	533.3
25°	406.1	425.5	457.8	433.4	414.0
27.5°	308.0	322.0	351.5	327.4	314.1
30°	225.7	234.3	254.8	239.0	229.6
32.5°	161.4	167.5	176.1	166.7	162.1
35°	112.8	116.1	120.0	116.4	113.2
37.5°	79.4	80.5	83.4	80.5	79.1
40°	55.7	56.1	58.2	56.4	55.7
42.5°	40.2	40.2	41.3	40.6	40.2
45°	28.7	29.1	29.8	29.5	29.1
47.5°	20.5	21.2	21.2	21.6	20.1
50°	12.2	15.1	15.5	15.1	12.2
52.5°	6.5	9.0	11.1	9.0	6.5
55°	4.0	5.4	7.5	5.4	4.3
57.5°	4.0	4.0	5.0	4.3	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	3.2	3.6	3.6
72.5°	3.2	3.2	2.9	3.2	3.2
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	1.4	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)