

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: P283916

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283916
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: LDA2B109027D010 EU2B10WFL559027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.3 lumens
Efficiency: N/A
Efficacy: 77.0 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

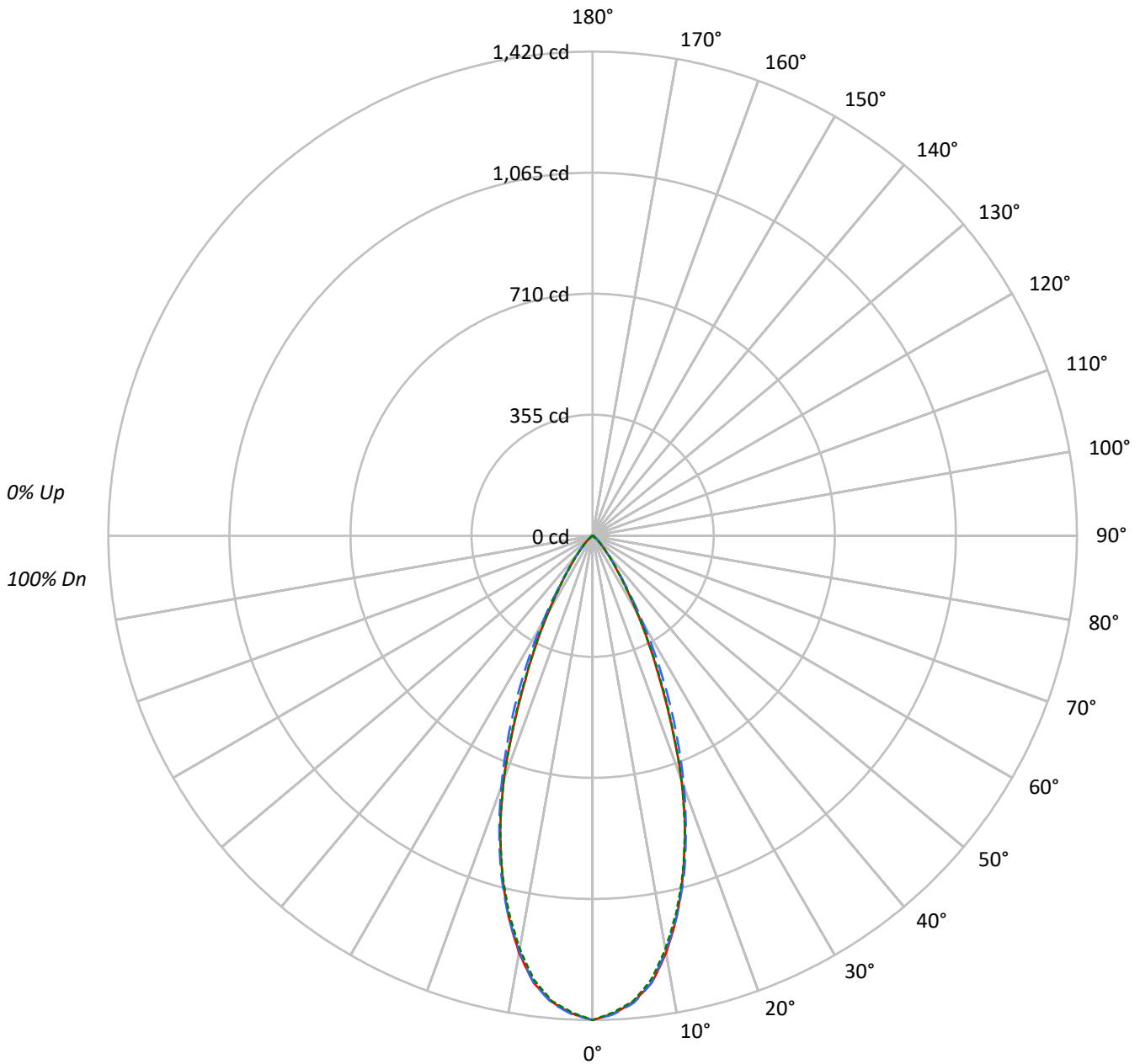
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	700722	700722	700722
5°	679676	681310	678240
10°	622158	619653	615946
15°	523331	528183	522462
20°	400174	410832	399544
25°	254109	286499	259063
30°	147776	166861	150397
35°	78116	83115	78357
40°	41218	43086	41218
45°	23094	23932	23374
50°	10745	13662	10745
55°	3871	7483	4301
60°	4440	4440	4440
65°	4786	5253	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5966	4830	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	16.5
10°-20°	282.3	36.6
20°-30°	228.0	29.6
30°-40°	90.1	11.7
40°-50°	27.7	3.6
50°-60°	7.1	0.9
60°-70°	4.3	0.6
70°-80°	3.2	0.4
80°-90°	0.9	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°	637.1	82.7
0°-40°	727.2	94.4
0°-60°	761.9	98.9
0°-90°	770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1372	1375	1376	1373	1370	127
15°	1025	1027	1034	1030	1023	281
25°	467	489	526	498	476	217
35°	130	133	138	134	130	87
45°	33	34	34	34	34	27
55°	4	6	9	6	5	6
65°	4	4	4	4	4	4
75°	3	3	3	3	3	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°	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1402.6	1403.4	1404.6	1403.0	1398.8
5°	1372.4	1374.9	1375.7	1372.8	1369.5
7.5°	1322.8	1319.9	1322.4	1317.5	1313.3
10°	1241.9	1238.1	1236.9	1229.5	1229.5
12.5°	1141.9	1140.6	1141.5	1137.7	1132.0
15°	1024.6	1027.4	1034.1	1029.9	1022.9
17.5°	900.2	904.3	910.1	908.9	899.4
20°	762.2	774.2	782.5	774.6	761.0
22.5°	605.2	630.8	651.9	635.4	613.1
25°	466.8	489.1	526.3	498.2	475.9
27.5°	354.0	370.2	404.0	376.4	361.1
30°	259.4	269.4	292.9	274.7	264.0
32.5°	185.5	192.5	202.4	191.7	186.3
35°	129.7	133.4	138.0	133.9	130.1
37.5°	91.3	92.5	95.8	92.5	90.9
40°	64.0	64.4	66.9	64.9	64.0
42.5°	46.3	46.3	47.5	46.7	46.3
45°	33.1	33.5	34.3	33.9	33.5
47.5°	23.5	24.4	24.4	24.8	23.1
50°	14.0	17.4	17.8	17.4	14.0
52.5°	7.4	10.3	12.8	10.3	7.4
55°	4.5	6.2	8.7	6.2	5.0
57.5°	4.5	4.5	5.8	5.0	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.5	4.5	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.7
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
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)