

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: P283584

Luminaire Tested: **LDA2B109027D010 EU2B10FL409027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109027D010 EU2B10FL409027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 669.2 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

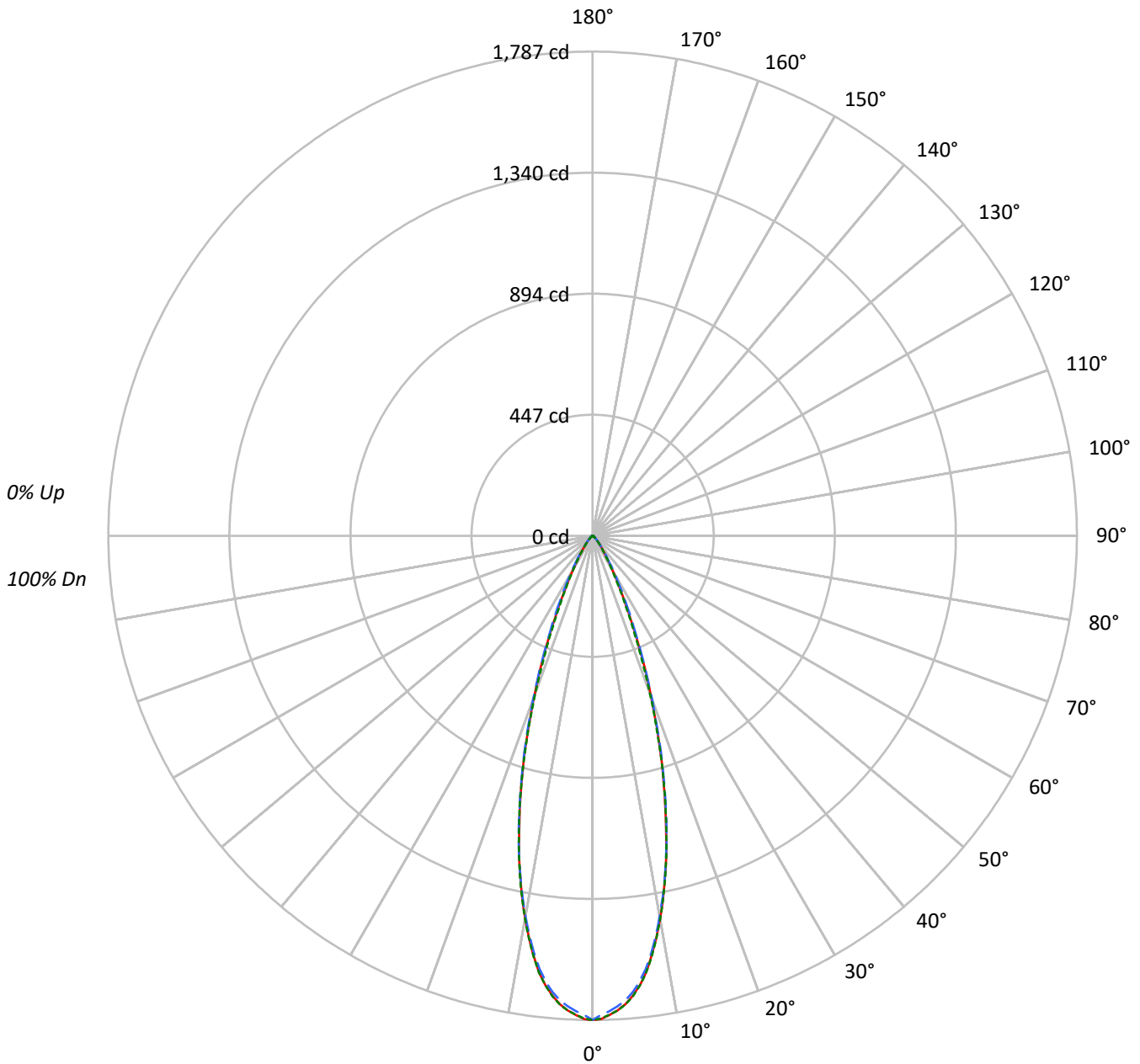
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283584

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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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	881687	881687	881687
5°	843751	837462	845039
10°	718846	714337	719597
15°	529817	533290	531554
20°	330766	336856	323468
25°	170876	183342	162275
30°	81921	93884	78047
35°	42280	46797	39570
40°	23701	24924	22477
45°	14373	14373	13885
50°	7522	9210	7522
55°	3871	6107	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5481	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	23.0
10°-20°	282.3	42.2
20°-30°	153.1	22.9
30°-40°	49.1	7.3
40°-50°	16.7	2.5
50°-60°	5.9	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
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°	589.1	88.0
0°-40°	638.3	95.4
0°-60°	660.9	98.8
0°-90°	669.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1704	1693	1691	1708	1706	154
15°	1037	1046	1044	1049	1041	281
25°	314	328	337	314	298	150
35°	70	73	78	71	66	47
45°	21	21	21	21	20	16
55°	4	6	7	6	5	5
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°	1787.1	1787.1	1787.1	1787.1	1787.1
1°	1784.1	1771.3	1769.4	1785.9	1782.2
2°	1769.8	1757.8	1755.9	1772.4	1769.0
3°	1754.0	1743.1	1739.4	1756.7	1754.4
4°	1733.0	1722.9	1719.5	1736.8	1734.9
5°	1703.7	1693.2	1691.0	1707.8	1706.3
6°	1667.7	1659.0	1654.9	1671.8	1668.8
7°	1622.6	1614.7	1610.2	1622.6	1624.1
8°	1564.1	1560.3	1555.0	1567.4	1567.4
9°	1501.7	1498.4	1492.7	1504.0	1504.0
10°	1434.9	1432.7	1425.9	1436.4	1436.4
11°	1361.7	1360.6	1355.7	1364.3	1364.3
12°	1284.7	1287.4	1282.9	1290.4	1287.7
13°	1207.8	1206.6	1207.0	1212.6	1208.5
14°	1120.7	1127.4	1128.6	1131.9	1125.5
15°	1037.3	1046.0	1044.1	1049.0	1040.7
16°	952.1	961.9	961.5	962.6	954.7
17°	872.5	878.1	878.5	877.4	867.6
18°	787.7	795.5	795.5	793.7	782.0
19°	704.7	710.7	714.8	710.7	697.2
20°	630.0	634.1	641.6	631.1	616.1
21°	558.3	562.0	568.4	556.0	539.5
22°	489.6	494.4	500.5	486.2	468.9
23°	425.4	436.6	438.9	419.4	404.7
24°	366.4	379.2	382.9	363.0	347.7
25°	313.9	328.1	336.8	313.5	298.1
26°	268.4	282.3	292.8	269.6	254.9
27°	228.6	243.3	254.2	232.4	218.5
28°	194.5	208.7	220.0	199.7	186.6
29°	168.9	177.2	188.5	171.6	159.6
30°	143.8	152.8	164.8	147.5	137.0
32.5°	98.7	103.6	113.0	102.5	94.2
35°	70.2	73.2	77.7	70.6	65.7
37.5°	49.9	51.4	54.1	49.9	47.3
40°	36.8	37.5	38.7	36.4	34.9
42.5°	27.4	27.8	27.8	27.0	26.3
45°	20.6	21.0	20.6	20.6	19.9
47.5°	15.0	16.1	15.8	15.8	14.6
50°	9.8	12.0	12.0	11.6	9.8
52.5°	6.0	8.3	9.4	8.3	6.4
55°	4.5	5.6	7.1	5.6	4.9
57.5°	4.5	4.5	5.3	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



TEST NUMBER: P283584

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.8	4.1	4.1
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
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°







62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)