

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: P283942

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283942
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: LDA2B109050D010 EU2B10WFL559050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 867.0 lumens
Efficiency: N/A
Efficacy: 86.7 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

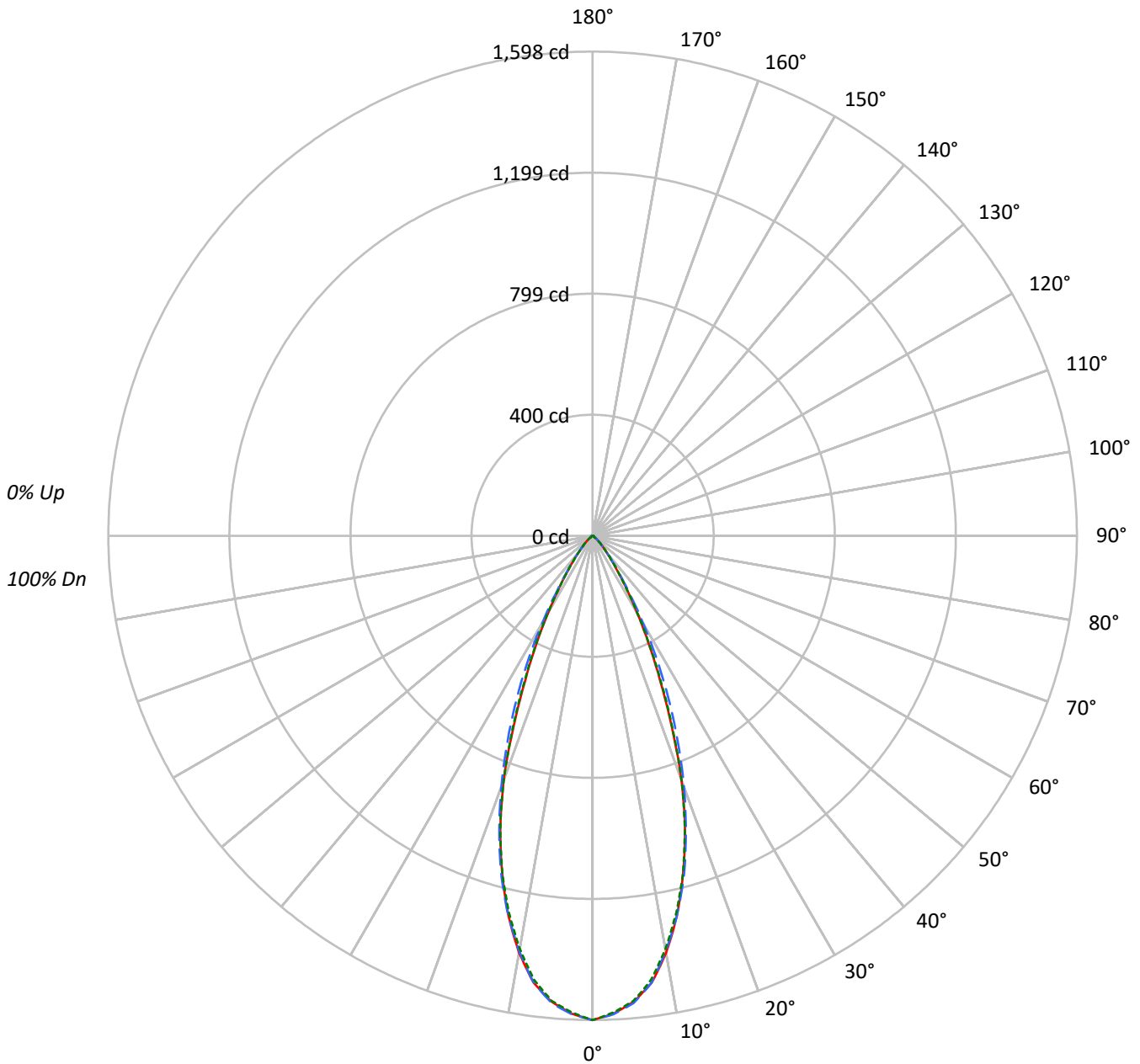
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	788639	788639	788639
5°	764958	766790	763323
10°	700159	697404	693196
15°	588964	594429	587993
20°	450366	462337	449631
25°	286009	322427	291562
30°	166348	187768	169253
35°	87933	93535	88235
40°	46435	48496	46435
45°	25955	26932	26304
50°	12127	15351	12127
55°	4387	8429	4817
60°	5032	5032	5032
65°	5370	5954	5370
70°	6635	6058	6635
75°	6290	6290	6290
80°	6535	5398	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	16.5
10°-20°	317.7	36.6
20°-30°	256.6	29.6
30°-40°	101.4	11.7
40°-50°	31.1	3.6
50°-60°	8.0	0.9
60°-70°	4.8	0.6
70°-80°	3.6	0.4
80°-90°	1.1	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°	717.0	82.7
0°-40°	818.4	94.4
0°-60°	857.5	98.9
0°-90°	867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1545	1547	1548	1545	1541	143
15°	1153	1156	1164	1159	1151	317
25°	525	550	592	561	536	245
35°	146	150	155	151	146	98
45°	37	38	39	38	38	30
55°	5	7	10	7	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
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°	1598.5	1598.5	1598.5	1598.5	1598.5
2.5°	1578.5	1579.4	1580.8	1579.0	1574.3
5°	1544.6	1547.3	1548.3	1545.0	1541.3
7.5°	1488.8	1485.5	1488.3	1482.7	1478.1
10°	1397.6	1393.4	1392.1	1383.7	1383.7
12.5°	1285.1	1283.7	1284.6	1280.5	1274.0
15°	1153.1	1156.3	1163.8	1159.1	1151.2
17.5°	1013.1	1017.8	1024.3	1022.9	1012.2
20°	857.8	871.3	880.6	871.8	856.4
22.5°	681.1	710.0	733.7	715.1	690.0
25°	525.4	550.5	592.3	560.7	535.6
27.5°	398.5	416.6	454.7	423.6	406.4
30°	292.0	303.1	329.6	309.2	297.1
32.5°	208.8	216.7	227.8	215.7	209.7
35°	146.0	150.2	155.3	150.6	146.5
37.5°	102.8	104.1	107.9	104.1	102.3
40°	72.1	72.5	75.3	73.0	72.1
42.5°	52.1	52.1	53.5	52.5	52.1
45°	37.2	37.7	38.6	38.1	37.7
47.5°	26.5	27.4	27.4	27.9	26.0
50°	15.8	19.5	20.0	19.5	15.8
52.5°	8.4	11.6	14.4	11.6	8.4
55°	5.1	7.0	9.8	7.0	5.6
57.5°	5.1	5.1	6.5	5.6	5.1
60°	5.1	5.1	5.1	5.1	5.1
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.6	5.1	5.1	5.1	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.2	4.6	4.6
72.5°	4.2	4.2	3.7	4.2	4.2
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	1.9	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)