

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: P282225

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108050D010 EU2B10NFL258050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1026.3 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

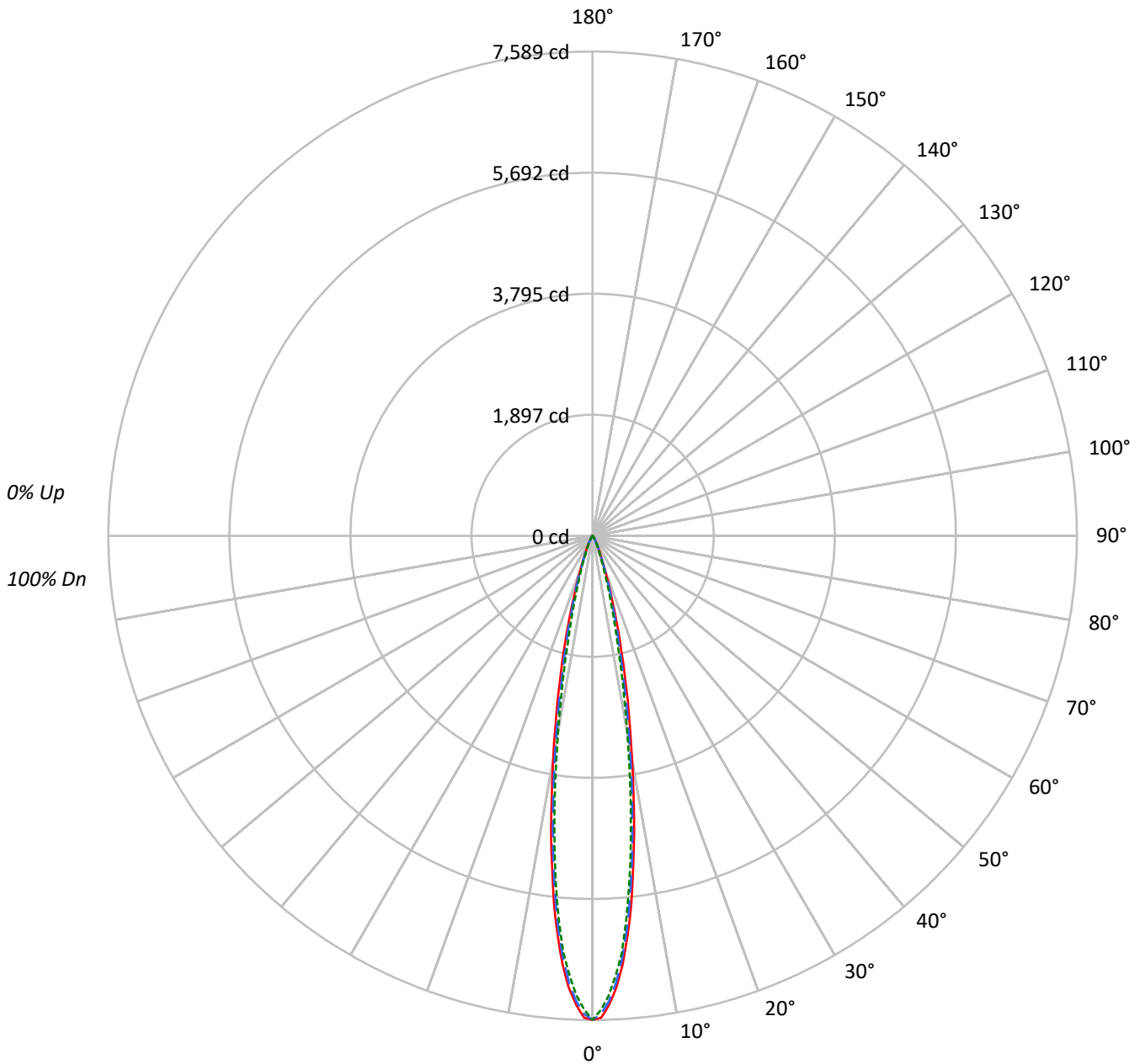
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3743975	3743975	3743975
5°	3115347	3058245	2996538
10°	1784465	1674501	1562784
15°	793679	704908	590701
20°	287924	270703	214473
25°	110560	103212	88895
30°	47683	44322	39365
35°	22586	22586	18671
40°	11335	11657	9403
45°	6559	6140	5721
50°	4528	4068	4068
55°	3527	2494	3011
60°	2861	1776	2269
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.6	48.1
10°-20°	399.4	38.9
20°-30°	96.3	9.4
30°-40°	24.6	2.4
40°-50°	7.3	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	989.3	96.4
0°-40°	1013.9	98.8
0°-60°	1024.3	99.8
0°-90°	1026.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7589	7589	7589	7589	7589	
5°	6290	6233	6175	6121	6051	509
15°	1554	1517	1380	1243	1156	443
25°	203	204	190	172	163	105
35°	38	38	38	34	31	26
45°	9	9	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7588.7	7588.7	7588.7	7588.7	7588.7
1°	7554.7	7502.0	7495.6	7528.4	7431.8
2°	7361.6	7324.1	7302.5	7321.8	7212.3
3°	7096.4	7060.2	7020.9	7021.5	6899.2
4°	6735.3	6706.7	6640.5	6620.6	6549.8
5°	6290.5	6232.6	6175.2	6121.4	6050.6
6°	5798.9	5724.0	5642.0	5561.9	5489.3
7°	5220.6	5170.9	5062.6	4953.2	4891.7
8°	4676.9	4596.7	4470.3	4333.4	4281.3
9°	4092.2	4034.9	3889.7	3730.5	3678.4
10°	3562.0	3502.3	3342.5	3165.2	3119.5
11°	3064.5	3008.3	2842.1	2656.0	2607.4
12°	2643.7	2564.1	2373.3	2211.8	2164.3
13°	2224.6	2170.2	1989.3	1829.6	1737.7
14°	1868.2	1823.1	1659.3	1518.8	1421.6
15°	1553.9	1517.0	1380.1	1243.1	1156.5
16°	1274.7	1251.9	1143.6	1011.4	940.5
17°	1034.2	1013.1	944.0	822.3	762.6
18°	835.2	832.3	774.9	669.6	616.3
19°	687.1	685.9	633.3	544.9	501.0
20°	548.4	556.0	515.6	438.4	408.5
21°	447.1	451.2	419.1	360.5	333.6
22°	364.0	367.0	345.9	297.9	283.3
23°	298.5	300.2	282.7	247.0	234.1
24°	245.8	247.0	231.2	206.0	194.9
25°	203.1	204.3	189.6	172.1	163.3
26°	168.6	169.7	156.9	144.6	135.8
27°	139.9	142.2	129.3	121.7	112.4
28°	119.4	120.0	108.3	103.6	94.8
29°	97.7	101.3	91.3	87.2	80.8
30°	83.7	85.5	77.8	74.9	69.1
32.5°	55.6	56.8	53.3	50.9	46.2
35°	37.5	38.0	37.5	33.9	31.0
37.5°	25.8	25.8	26.3	22.2	21.1
40°	17.6	17.6	18.1	15.2	14.6
42.5°	12.9	12.9	12.3	10.5	10.5
45°	9.4	9.4	8.8	8.2	8.2
47.5°	7.6	7.0	6.4	6.4	6.4
50°	5.9	5.9	5.3	4.7	5.3
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.8	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.3	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)