

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: P282717

Luminaire Tested: **LDA2B158050D010 EU2B15NFL258050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282717
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: LDA2B158050D010 EU2B15NFL258050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1255.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

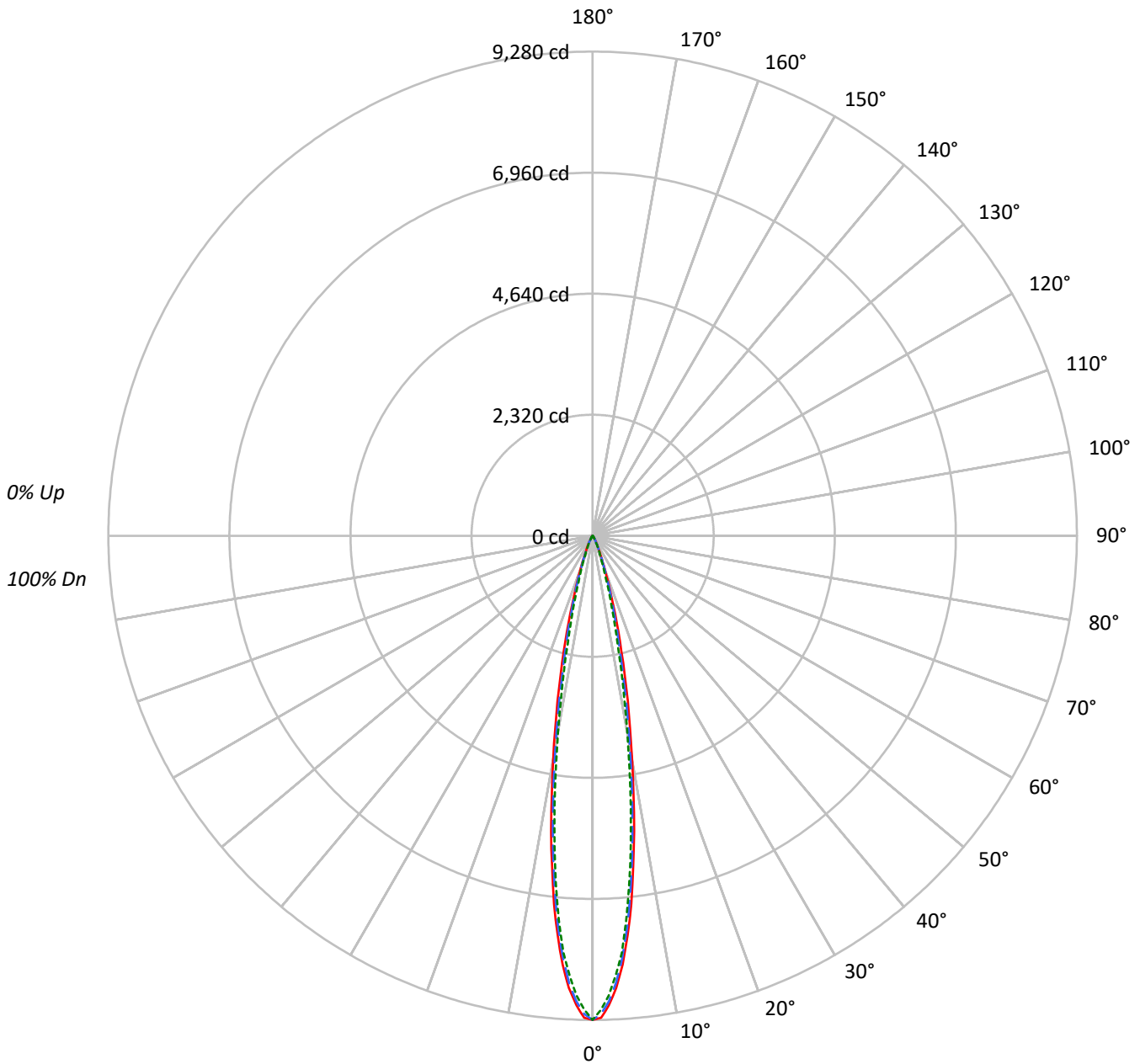
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4578397	4578397	4578397
5°	3809683	3739853	3664377
10°	2182137	2047676	1911111
15°	970557	862019	722376
20°	352082	331028	262302
25°	135220	126238	108710
30°	58279	54234	48138
35°	27585	27585	22827
40°	13847	14298	11528
45°	8024	7466	6977
50°	5526	4912	4912
55°	4301	3097	3699
60°	3552	2072	2861
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.6	48.1
10°-20°	488.4	38.9
20°-30°	117.8	9.4
30°-40°	30.0	2.4
40°-50°	9.0	0.7
50°-60°	3.8	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1209.8	96.4
0°-40°	1239.8	98.8
0°-60°	1252.6	99.8
0°-90°	1255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9280	9280	9280	9280	9280	
5°	7692	7622	7552	7486	7399	622
15°	1900	1855	1688	1520	1414	542
25°	248	250	232	210	200	128
35°	46	46	46	42	38	32
45°	12	12	11	10	10	10
55°	5	4	4	4	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9280.0	9280.0	9280.0	9280.0	9280.0
1°	9238.5	9174.0	9166.2	9206.2	9088.2
2°	9002.3	8956.5	8930.0	8953.6	8819.8
3°	8678.0	8633.7	8585.7	8586.4	8436.9
4°	8236.4	8201.4	8120.5	8096.2	8009.6
5°	7692.5	7621.7	7551.5	7485.7	7399.1
6°	7091.3	6999.7	6899.5	6801.4	6712.7
7°	6384.2	6323.3	6190.9	6057.1	5981.9
8°	5719.3	5621.2	5466.6	5299.2	5235.5
9°	5004.3	4934.1	4756.6	4562.0	4498.3
10°	4355.8	4282.8	4087.4	3870.6	3814.8
11°	3747.5	3678.8	3475.5	3247.9	3188.5
12°	3232.9	3135.5	2902.2	2704.7	2646.7
13°	2720.4	2653.9	2432.7	2237.3	2125.0
14°	2284.6	2229.5	2029.1	1857.3	1738.5
15°	1900.2	1855.1	1687.7	1520.2	1414.3
16°	1558.8	1530.9	1398.5	1236.8	1150.2
17°	1264.7	1238.9	1154.4	1005.6	932.6
18°	1021.3	1017.7	947.6	818.8	753.6
19°	840.2	838.8	774.4	666.3	612.7
20°	670.6	679.9	630.5	536.1	499.6
21°	546.8	551.8	512.5	440.9	408.0
22°	445.2	448.8	423.0	364.3	346.4
23°	365.0	367.2	345.7	302.0	286.3
24°	300.6	302.0	282.7	251.9	238.3
25°	248.4	249.8	231.9	210.4	199.7
26°	206.1	207.6	191.8	176.8	166.0
27°	171.1	173.9	158.2	148.9	137.4
28°	146.0	146.7	132.4	126.7	115.9
29°	119.5	123.8	111.7	106.6	98.8
30°	102.3	104.5	95.2	91.6	84.5
32.5°	68.0	69.4	65.1	62.3	56.5
35°	45.8	46.5	45.8	41.5	37.9
37.5°	31.5	31.5	32.2	27.2	25.8
40°	21.5	21.5	22.2	18.6	17.9
42.5°	15.7	15.7	15.0	12.9	12.9
45°	11.5	11.5	10.7	10.0	10.0
47.5°	9.3	8.6	7.9	7.9	7.9
50°	7.2	7.2	6.4	5.7	6.4
52.5°	5.7	5.7	5.0	5.0	5.0
55°	5.0	4.3	3.6	3.6	4.3
57.5°	3.6	3.6	2.9	2.9	3.6
60°	3.6	2.9	2.1	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.9	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)