

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: P282632

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282632
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: LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 704.1 lumens
Efficiency: N/A
Efficacy: 100.6 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

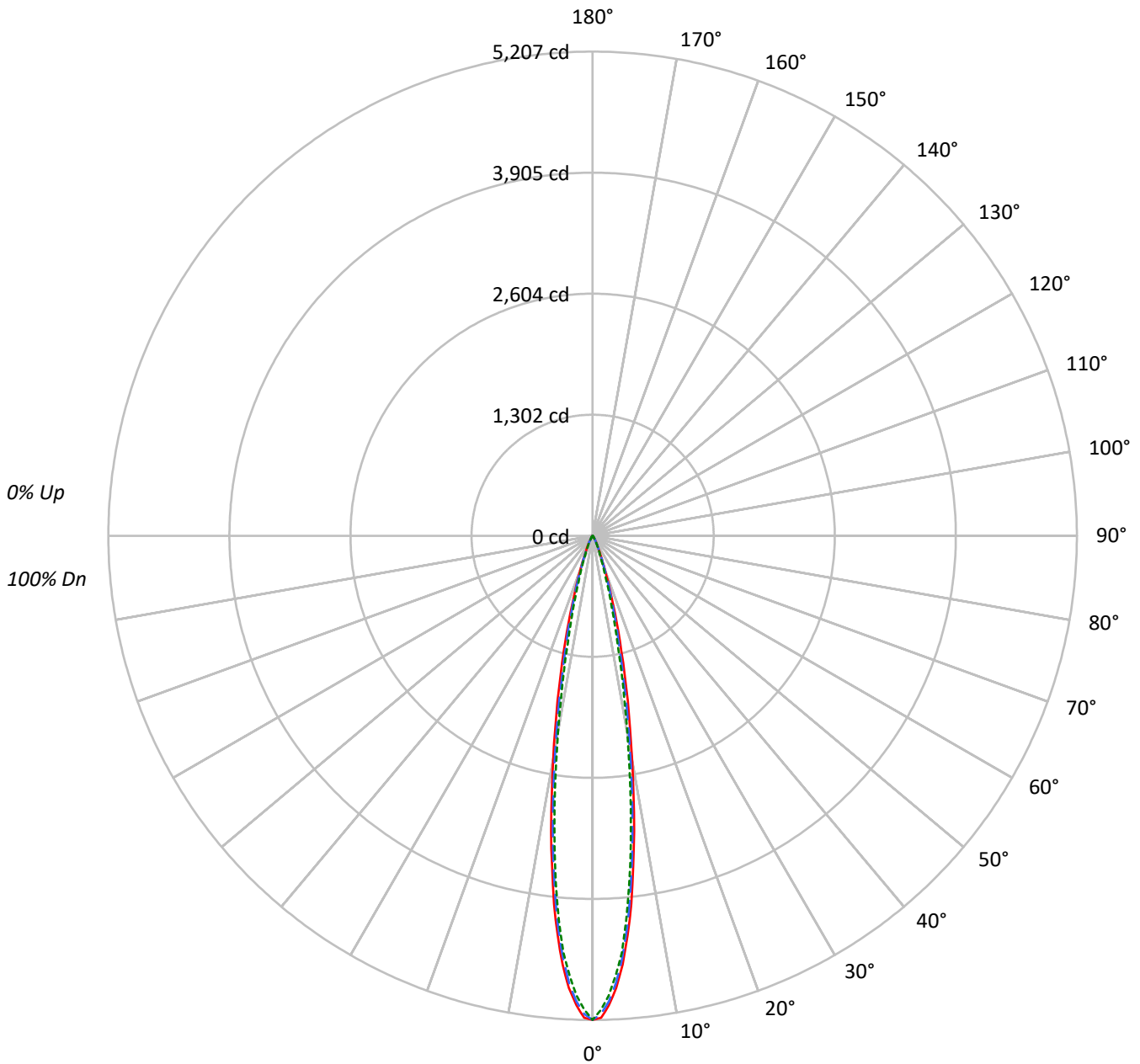
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2568836	2568836	2568836
5°	2137533	2098359	2056015
10°	1224377	1148931	1072282
15°	544578	483644	405293
20°	197567	185754	147164
25°	75830	70822	60969
30°	32700	30421	27003
35°	15479	15479	12829
40°	7728	7986	6440
45°	4465	4186	3907
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	48.1
10°-20°	274.1	38.9
20°-30°	66.1	9.4
30°-40°	16.8	2.4
40°-50°	5.0	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	678.8	96.4
0°-40°	695.6	98.8
0°-60°	702.8	99.8
0°-90°	704.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5207	5207	5207	5207	5207	
5°	4316	4276	4237	4200	4152	349
15°	1066	1041	947	853	794	304
25°	139	140	130	118	112	72
35°	26	26	26	23	21	18
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	5206.8	5206.8	5206.8	5206.8	5206.8
1°	5183.6	5147.4	5143.0	5165.5	5099.2
2°	5051.0	5025.3	5010.5	5023.7	4948.6
3°	4869.1	4844.2	4817.3	4817.7	4733.8
4°	4621.3	4601.7	4556.3	4542.6	4494.0
5°	4316.1	4276.4	4237.0	4200.1	4151.5
6°	3978.8	3927.4	3871.2	3816.2	3766.4
7°	3582.1	3547.9	3473.6	3398.5	3356.4
8°	3209.0	3154.0	3067.2	2973.3	2937.5
9°	2807.8	2768.5	2668.9	2559.6	2523.9
10°	2444.0	2403.0	2293.4	2171.7	2140.4
11°	2102.7	2064.1	1950.1	1822.4	1789.0
12°	1813.9	1759.3	1628.4	1517.6	1485.0
13°	1526.4	1489.0	1365.0	1255.3	1192.3
14°	1281.8	1250.9	1138.5	1042.1	975.4
15°	1066.2	1040.9	946.9	852.9	793.5
16°	874.6	859.0	784.7	693.9	645.3
17°	709.6	695.1	647.7	564.2	523.3
18°	573.0	571.0	531.7	459.4	422.9
19°	471.5	470.6	434.5	373.9	343.7
20°	376.3	381.5	353.8	300.8	280.3
21°	306.8	309.6	287.5	247.4	228.9
22°	249.8	251.8	237.3	204.4	194.4
23°	204.8	206.0	194.0	169.5	160.6
24°	168.7	169.5	158.6	141.4	133.7
25°	139.3	140.2	130.1	118.1	112.0
26°	115.7	116.5	107.6	99.2	93.2
27°	96.0	97.6	88.7	83.5	77.1
28°	81.9	82.3	74.3	71.1	65.1
29°	67.1	69.5	62.6	59.8	55.4
30°	57.4	58.6	53.4	51.4	47.4
32.5°	38.1	39.0	36.5	34.9	31.7
35°	25.7	26.1	25.7	23.3	21.3
37.5°	17.7	17.7	18.1	15.3	14.5
40°	12.0	12.0	12.4	10.4	10.0
42.5°	8.8	8.8	8.4	7.2	7.2
45°	6.4	6.4	6.0	5.6	5.6
47.5°	5.2	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)