

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: P282626

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282626
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: LDA2B058035D010 EU2B05NFL258035 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: 681.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

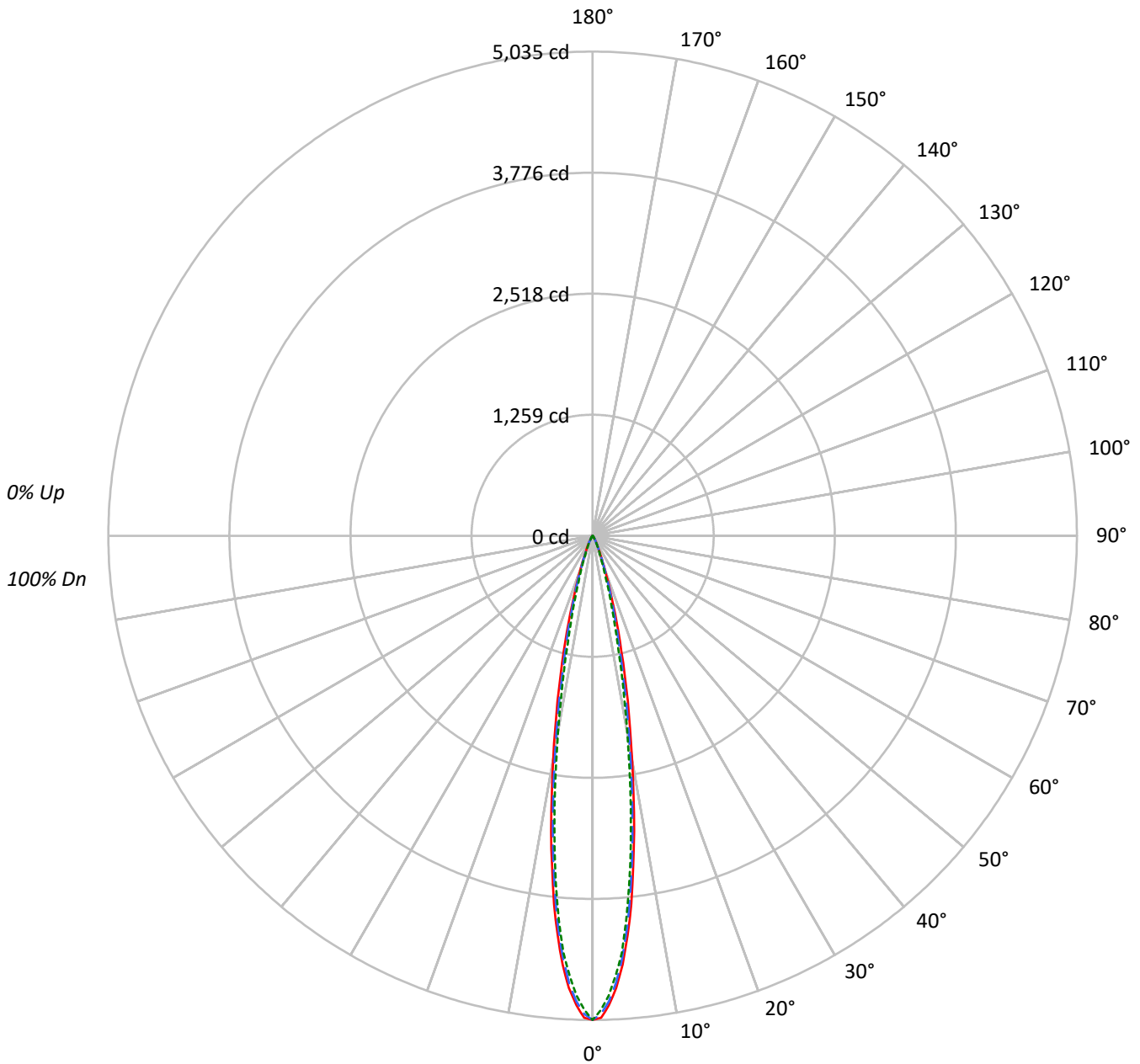
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	2484126	2484126	2484126
5°	2067059	2029173	1988166
10°	1183999	1111007	1036913
15°	526599	467708	391911
20°	191056	179611	142334
25°	73380	68481	58955
30°	31618	29396	26092
35°	14997	14997	12407
40°	7471	7728	6247
45°	4326	4047	3768
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	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°	327.5	48.1
10°-20°	265.0	38.9
20°-30°	63.9	9.4
30°-40°	16.3	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
70°-80°	0.3	0.1
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°	656.4	96.4
0°-40°	672.7	98.8
0°-60°	679.6	99.8
0°-90°	681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5035	5035	5035	5035	5035	
5°	4174	4135	4097	4062	4014	338
15°	1031	1006	916	825	767	294
25°	135	136	126	114	108	70
35°	25	25	25	22	21	17
45°	6	6	6	5	5	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°	5035.1	5035.1	5035.1	5035.1	5035.1
1°	5012.5	4977.6	4973.3	4995.1	4931.0
2°	4884.4	4859.5	4845.2	4858.0	4785.4
3°	4708.5	4684.4	4658.4	4658.8	4577.6
4°	4468.9	4449.9	4406.0	4392.8	4345.8
5°	4173.8	4135.3	4097.3	4061.5	4014.5
6°	3847.6	3797.9	3743.5	3690.3	3642.1
7°	3463.9	3430.9	3359.0	3286.4	3245.7
8°	3103.1	3049.9	2966.1	2875.2	2840.6
9°	2715.2	2677.1	2580.8	2475.2	2440.6
10°	2363.4	2323.8	2217.7	2100.1	2069.8
11°	2033.3	1996.0	1885.7	1762.2	1730.0
12°	1754.1	1701.3	1574.7	1467.5	1436.0
13°	1476.0	1439.9	1319.9	1213.9	1152.9
14°	1239.5	1209.6	1100.9	1007.7	943.3
15°	1031.0	1006.5	915.7	824.8	767.3
16°	845.8	830.6	758.8	671.0	624.0
17°	686.2	672.2	626.4	545.6	506.0
18°	554.1	552.2	514.1	444.2	408.9
19°	455.9	455.1	420.2	361.5	332.4
20°	363.9	368.9	342.1	290.9	271.1
21°	296.7	299.4	278.0	239.2	221.3
22°	241.5	243.5	229.5	197.7	188.0
23°	198.0	199.2	187.6	163.9	155.3
24°	163.1	163.9	153.4	136.7	129.3
25°	134.8	135.5	125.8	114.2	108.3
26°	111.8	112.6	104.1	95.9	90.1
27°	92.8	94.4	85.8	80.8	74.6
28°	79.2	79.6	71.8	68.7	62.9
29°	64.9	67.2	60.6	57.9	53.6
30°	55.5	56.7	51.6	49.7	45.8
32.5°	36.9	37.7	35.3	33.8	30.7
35°	24.9	25.2	24.9	22.5	20.6
37.5°	17.1	17.1	17.5	14.8	14.0
40°	11.6	11.6	12.0	10.1	9.7
42.5°	8.5	8.5	8.2	7.0	7.0
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.0	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.6	1.6	1.9
60°	1.9	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)