

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: P282147

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282147
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: LDA2B059024D010 EU2B05NFL259024 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 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: 518.4 lumens
Efficiency: N/A
Efficacy: 74.1 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

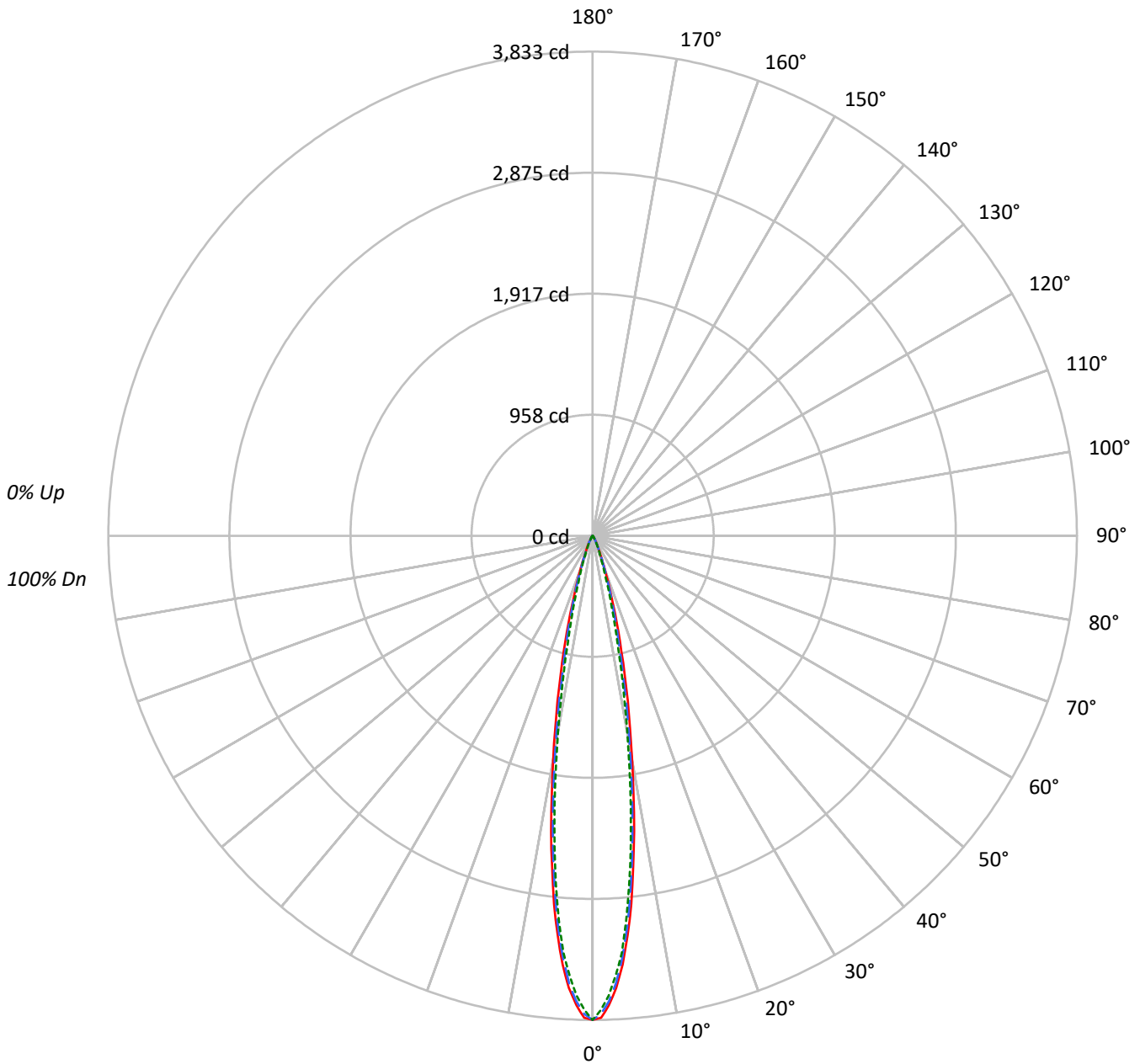
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1891154	1891154	1891154
5°	1573645	1544822	1513621
10°	901400	845842	789383
15°	400900	356055	298389
20°	145432	136769	108365
25°	55852	52150	44910
30°	24098	22389	19882
35°	11383	11383	9456
40°	5732	5925	4766
45°	3279	3070	2861
50°	2303	2072	2072
55°	1806	1290	1548
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	48.1
10°-20°	201.8	38.9
20°-30°	48.7	9.4
30°-40°	12.4	2.4
40°-50°	3.7	0.7
50°-60°	1.6	0.3
60°-70°	0.8	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°	499.7	96.4
0°-40°	512.1	98.8
0°-60°	517.4	99.8
0°-90°	518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3833	3833	3833	3833	3833	
5°	3178	3148	3119	3092	3056	257
15°	785	766	697	628	584	224
25°	103	103	96	87	82	53
35°	19	19	19	17	16	13
45°	5	5	4	4	4	4
55°	2	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°	3833.2	3833.2	3833.2	3833.2	3833.2
1°	3816.1	3789.5	3786.2	3802.8	3754.0
2°	3718.5	3699.6	3688.7	3698.4	3643.1
3°	3584.6	3566.3	3546.5	3546.8	3485.0
4°	3402.2	3387.7	3354.3	3344.3	3308.5
5°	3177.5	3148.2	3119.3	3092.1	3056.3
6°	2929.2	2891.3	2849.9	2809.4	2772.8
7°	2637.1	2612.0	2557.3	2502.0	2470.9
8°	2362.4	2321.9	2258.1	2188.9	2162.6
9°	2067.1	2038.1	1964.8	1884.4	1858.1
10°	1799.3	1769.1	1688.4	1598.8	1575.7
11°	1548.0	1519.6	1435.6	1341.6	1317.1
12°	1335.4	1295.2	1198.8	1117.2	1093.3
13°	1123.7	1096.2	1004.9	924.2	877.7
14°	943.7	920.9	838.1	767.2	718.1
15°	784.9	766.3	697.1	627.9	584.2
16°	643.9	632.4	577.7	510.9	475.1
17°	522.4	511.7	476.9	415.4	385.2
18°	421.9	420.4	391.4	338.2	311.3
19°	347.1	346.5	319.9	275.2	253.1
20°	277.0	280.9	260.5	221.4	206.4
21°	225.9	227.9	211.7	182.1	168.5
22°	183.9	185.4	174.7	150.5	143.1
23°	150.8	151.7	142.8	124.8	118.3
24°	124.2	124.8	116.8	104.1	98.4
25°	102.6	103.2	95.8	86.9	82.5
26°	85.1	85.7	79.2	73.0	68.6
27°	70.7	71.8	65.3	61.5	56.8
28°	60.3	60.6	54.7	52.3	47.9
29°	49.4	51.1	46.1	44.1	40.8
30°	42.3	43.2	39.3	37.8	34.9
32.5°	28.1	28.7	26.9	25.7	23.4
35°	18.9	19.2	18.9	17.1	15.7
37.5°	13.0	13.0	13.3	11.2	10.6
40°	8.9	8.9	9.2	7.7	7.4
42.5°	6.5	6.5	6.2	5.3	5.3
45°	4.7	4.7	4.4	4.1	4.1
47.5°	3.8	3.5	3.3	3.3	3.3
50°	3.0	3.0	2.7	2.4	2.7
52.5°	2.4	2.4	2.1	2.1	2.1
55°	2.1	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)