

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: P225211

Luminaire Tested: **LD2B10D010 EU2B10FL408035 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10FL408035 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 980.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

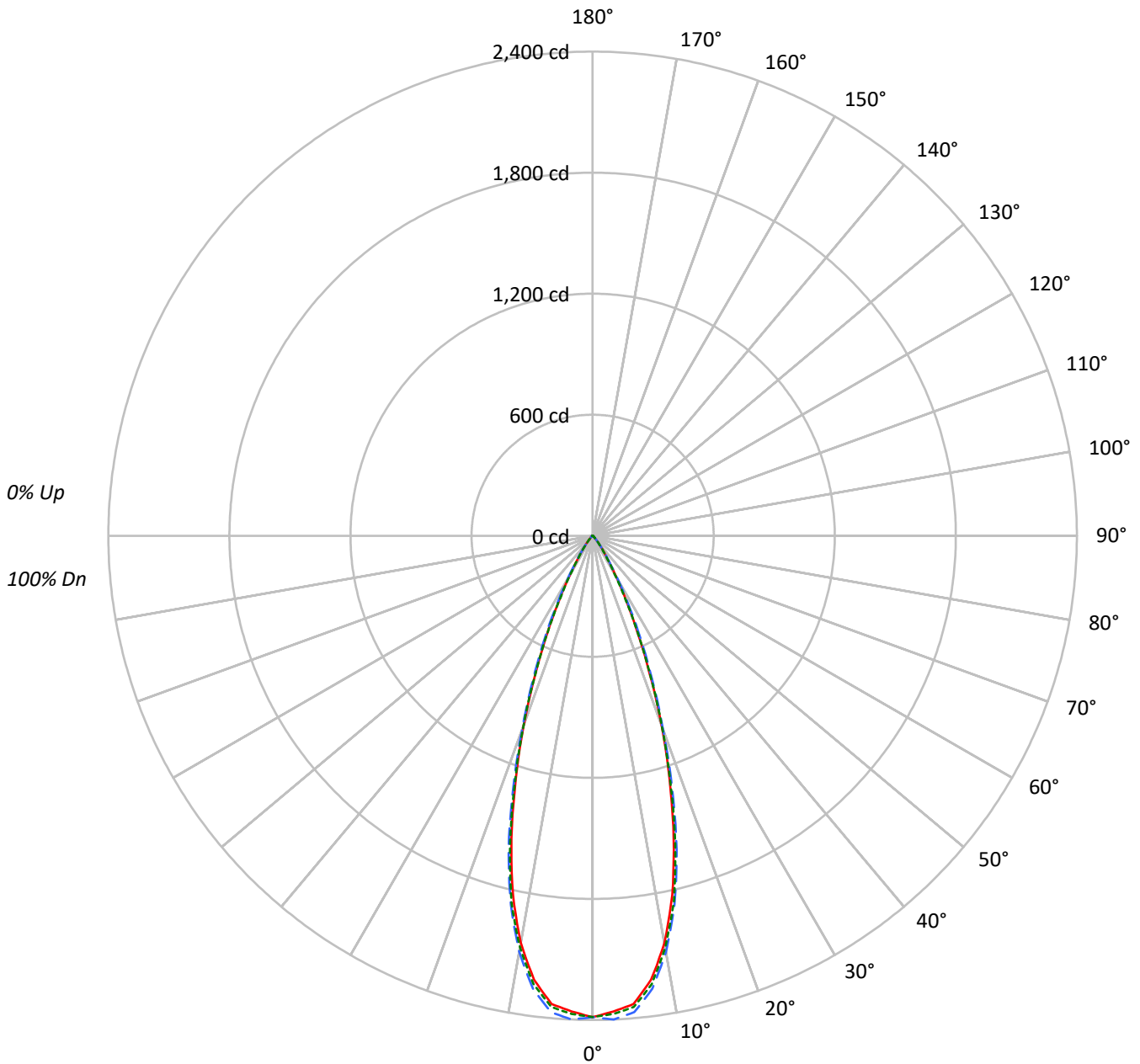
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	924091	924091	924091
5°	905847	921400	911524
10°	806112	823418	815001
15°	622809	645265	634037
20°	410845	419666	413029
25°	224123	239509	225234
30°	100859	111594	96699
35°	43551	44780	39768
40°	18203	18911	16889
45°	7286	8053	8053
50°	3194	4037	4037
55°	1823	1823	2701
60°	1007	1007	1007
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	22.0
10°-20°	429.3	43.8
20°-30°	253.6	25.9
30°-40°	66.0	6.7
40°-50°	13.1	1.3
50°-60°	2.9	0.3
60°-70°	0.2	0.0
70°-80°	0.0	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°	898.4	91.6
0°-40°	964.5	98.4
0°-60°	980.4	100.0
0°-90°	980.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2330	2348	2370	2354	2344	213
15°	1553	1588	1609	1585	1581	421
25°	524	542	560	539	527	247
35°	92	96	95	93	84	64
45°	13	16	15	15	15	12
55°	3	3	3	3	4	3
65°	0	0	0	0	0	0
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°	2385.7	2385.7	2385.7	2385.7	2385.7
2.5°	2360.3	2384.4	2400.4	2387.0	2372.4
5°	2329.7	2348.3	2369.7	2353.7	2344.3
7.5°	2220.2	2248.3	2264.3	2256.3	2241.6
10°	2049.5	2070.8	2093.5	2085.5	2072.1
12.5°	1824.0	1853.3	1874.7	1856.0	1858.7
15°	1553.1	1587.8	1609.1	1585.1	1581.1
17.5°	1266.2	1292.9	1307.6	1292.9	1282.2
20°	996.7	1012.7	1018.1	1011.4	1002.0
22.5°	736.5	753.9	769.9	753.9	741.9
25°	524.4	541.7	560.4	539.1	527.0
27.5°	353.6	364.3	380.3	360.3	342.9
30°	225.5	237.5	249.5	234.8	216.2
32.5°	142.8	150.8	152.1	149.4	133.4
35°	92.1	96.1	94.7	93.4	84.1
37.5°	58.7	58.7	60.0	58.7	53.4
40°	36.0	38.7	37.4	36.0	33.4
42.5°	21.3	24.0	22.7	22.7	21.3
45°	13.3	16.0	14.7	14.7	14.7
47.5°	9.3	10.7	9.3	9.3	10.7
50°	5.3	6.7	6.7	6.7	6.7
52.5°	4.0	4.0	4.0	4.0	5.3
55°	2.7	2.7	2.7	2.7	4.0
57.5°	2.7	2.7	1.3	1.3	2.7
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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°







(END OF REPORT)