

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: P225175

Luminaire Tested: **LD2B10D010 EU2B10FL408040 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225175
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 EU2B10FL408040 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: 1020.7 lumens
Efficiency: N/A
Efficacy: 99.1 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

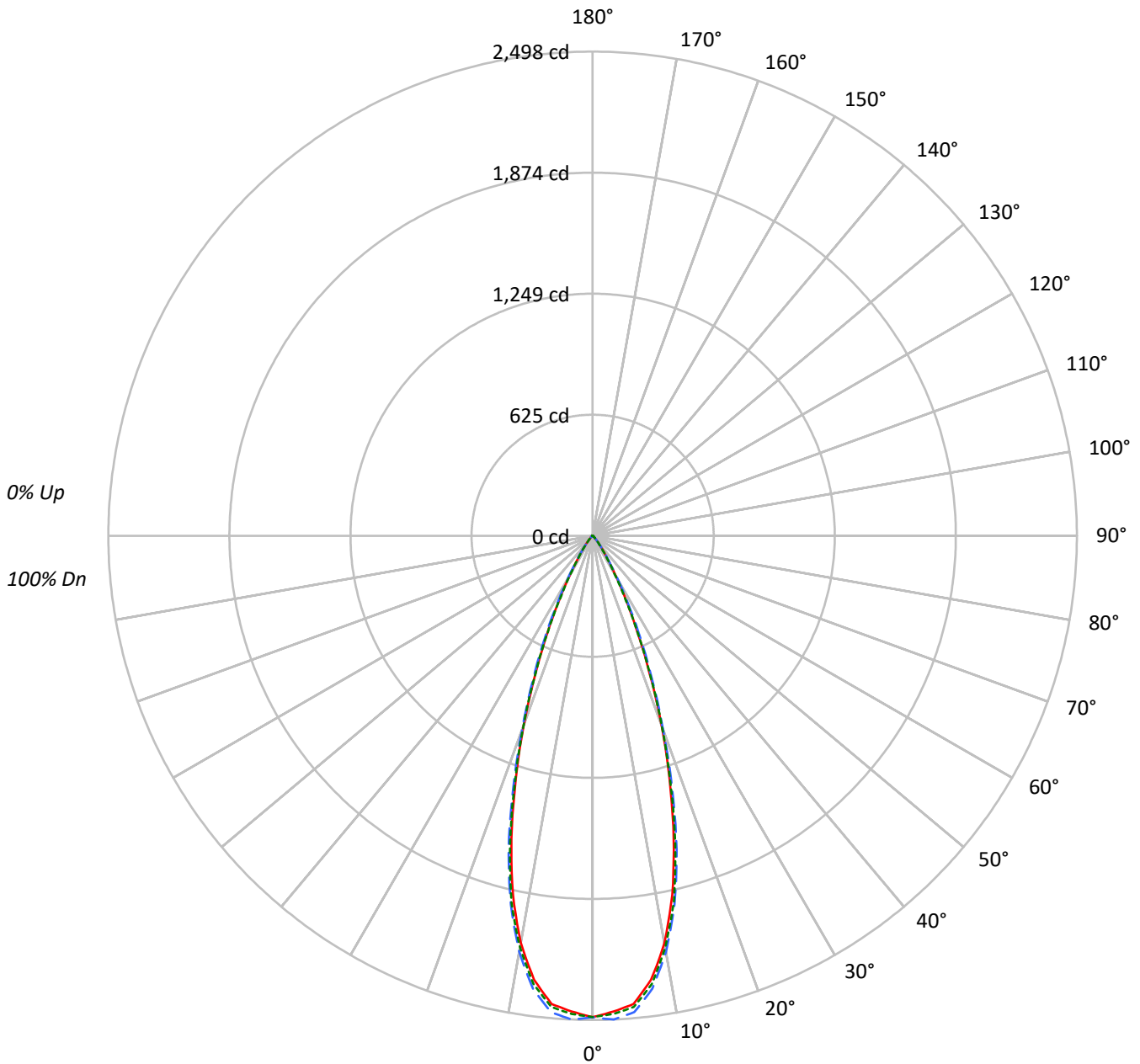
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225175

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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°	961896	961896	961896
5°	942863	959077	948812
10°	839073	857087	848355
15°	648273	671652	659982
20°	427663	436814	429930
25°	233269	249296	234466
30°	104974	116156	100635
35°	45300	46624	41375
40°	18962	19670	17546
45°	7614	8381	8381
50°	3375	4158	4158
55°	1891	1891	2836
60°	1085	1085	1085
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°	224.5	22.0
10°-20°	446.8	43.8
20°-30°	263.9	25.9
30°-40°	68.7	6.7
40°-50°	13.6	1.3
50°-60°	3.0	0.3
60°-70°	0.3	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°	935.2	91.6
0°-40°	1003.9	98.4
0°-60°	1020.5	100.0
0°-90°	1020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2483	2483	2483	2483	2483	
5°	2425	2444	2467	2450	2440	222
15°	1617	1653	1675	1650	1646	439
25°	546	564	583	561	549	257
35°	96	100	99	97	88	67
45°	14	17	15	15	15	13
55°	3	3	3	3	4	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2483.3	2483.3	2483.3	2483.3	2483.3
2.5°	2456.9	2481.9	2498.5	2484.6	2469.4
5°	2424.9	2444.4	2466.6	2449.9	2440.2
7.5°	2311.0	2340.2	2356.9	2348.5	2333.3
10°	2133.3	2155.5	2179.1	2170.8	2156.9
12.5°	1898.6	1929.1	1951.3	1931.9	1934.7
15°	1616.6	1652.7	1674.9	1650.0	1645.8
17.5°	1318.0	1345.8	1361.1	1345.8	1334.7
20°	1037.5	1054.1	1059.7	1052.7	1043.0
22.5°	766.6	784.7	801.4	784.7	772.2
25°	545.8	563.9	583.3	561.1	548.6
27.5°	368.0	379.2	395.8	375.0	356.9
30°	234.7	247.2	259.7	244.4	225.0
32.5°	148.6	156.9	158.3	155.6	138.9
35°	95.8	100.0	98.6	97.2	87.5
37.5°	61.1	61.1	62.5	61.1	55.6
40°	37.5	40.3	38.9	37.5	34.7
42.5°	22.2	25.0	23.6	23.6	22.2
45°	13.9	16.7	15.3	15.3	15.3
47.5°	9.7	11.1	9.7	9.7	11.1
50°	5.6	6.9	6.9	6.9	6.9
52.5°	4.2	4.2	4.2	4.2	5.6
55°	2.8	2.8	2.8	2.8	4.2
57.5°	2.8	2.8	1.4	1.4	2.8
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
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)