

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: P225178

Luminaire Tested: **LD2B10D010 EU2B10FL409027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225178
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 EU2B10FL409027 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: 749.8 lumens
Efficiency: N/A
Efficacy: 72.8 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

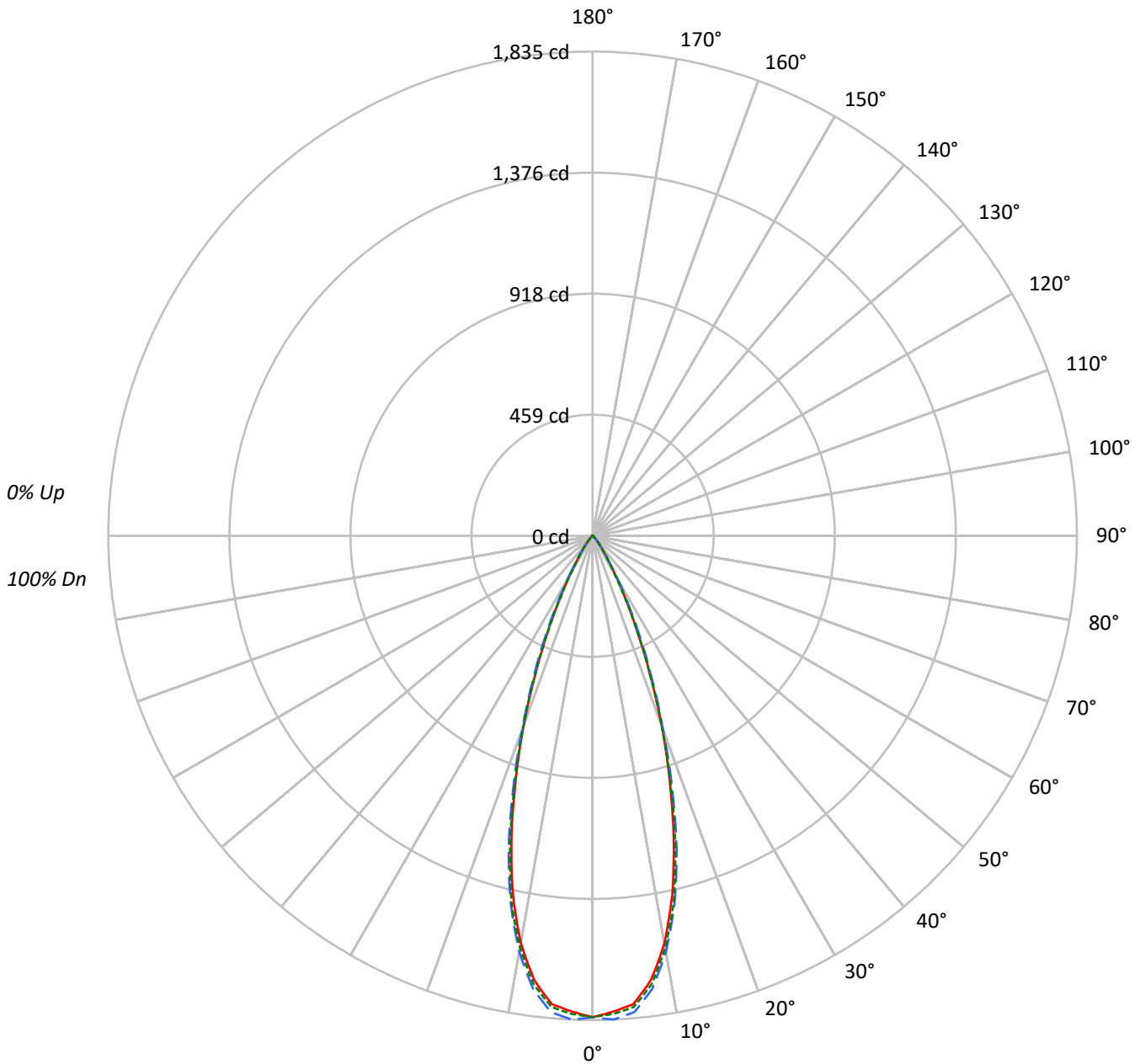
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96						96													
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91						91													
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87						87													
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83						83													
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80						80													
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77						77													
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73						73													
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71						71													
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68						68													
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65						65													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	706597	706597	706597
5°	692615	704513	697009
10°	616374	629629	623178
15°	476240	493403	484821
20°	314141	320860	315831
25°	171383	183136	172238
30°	77109	85339	73934
35°	33289	34235	30405
40°	13905	14461	12894
45°	5587	6135	6135
50°	2471	3073	3073
55°	1351	1351	2093
60°	775	775	775
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°	164.9	22.0
10°-20°	328.2	43.8
20°-30°	193.9	25.9
30°-40°	50.5	6.7
40°-50°	10.0	1.3
50°-60°	2.2	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°	687.0	91.6
0°-40°	737.5	98.4
0°-60°	749.6	100.0
0°-90°	749.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	749.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1824	1824	1824	1824	1824	
5°	1781	1796	1812	1800	1793	163
15°	1188	1214	1230	1212	1209	322
25°	401	414	428	412	403	189
35°	70	74	72	71	64	49
45°	10	12	11	11	11	9
55°	2	2	2	2	3	2
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°	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1804.8	1823.2	1835.4	1825.2	1814.0
5°	1781.3	1795.6	1811.9	1799.7	1792.6
7.5°	1697.7	1719.1	1731.3	1725.2	1714.0
10°	1567.1	1583.4	1600.8	1594.6	1584.4
12.5°	1394.7	1417.1	1433.4	1419.2	1421.2
15°	1187.6	1214.1	1230.4	1212.0	1209.0
17.5°	968.2	988.6	999.8	988.6	980.4
20°	762.1	774.4	778.4	773.3	766.2
22.5°	563.2	576.4	588.7	576.4	567.3
25°	401.0	414.2	428.5	412.2	403.0
27.5°	270.4	278.5	290.8	275.5	262.2
30°	172.4	181.6	190.8	179.6	165.3
32.5°	109.2	115.3	116.3	114.3	102.0
35°	70.4	73.5	72.4	71.4	64.3
37.5°	44.9	44.9	45.9	44.9	40.8
40°	27.5	29.6	28.6	27.5	25.5
42.5°	16.3	18.4	17.3	17.3	16.3
45°	10.2	12.2	11.2	11.2	11.2
47.5°	7.1	8.2	7.1	7.1	8.2
50°	4.1	5.1	5.1	5.1	5.1
52.5°	3.1	3.1	3.1	3.1	4.1
55°	2.0	2.0	2.0	2.0	3.1
57.5°	2.0	2.0	1.0	1.0	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)