

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: P225195

Luminaire Tested: **LD2B20D010 EU2B20FL408035 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225195
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: LD2B20D010 EU2B20FL408035 2LBDSQC*MB
Description: 2000 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: 1780.6 lumens
Efficiency: N/A
Efficacy: 85.2 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

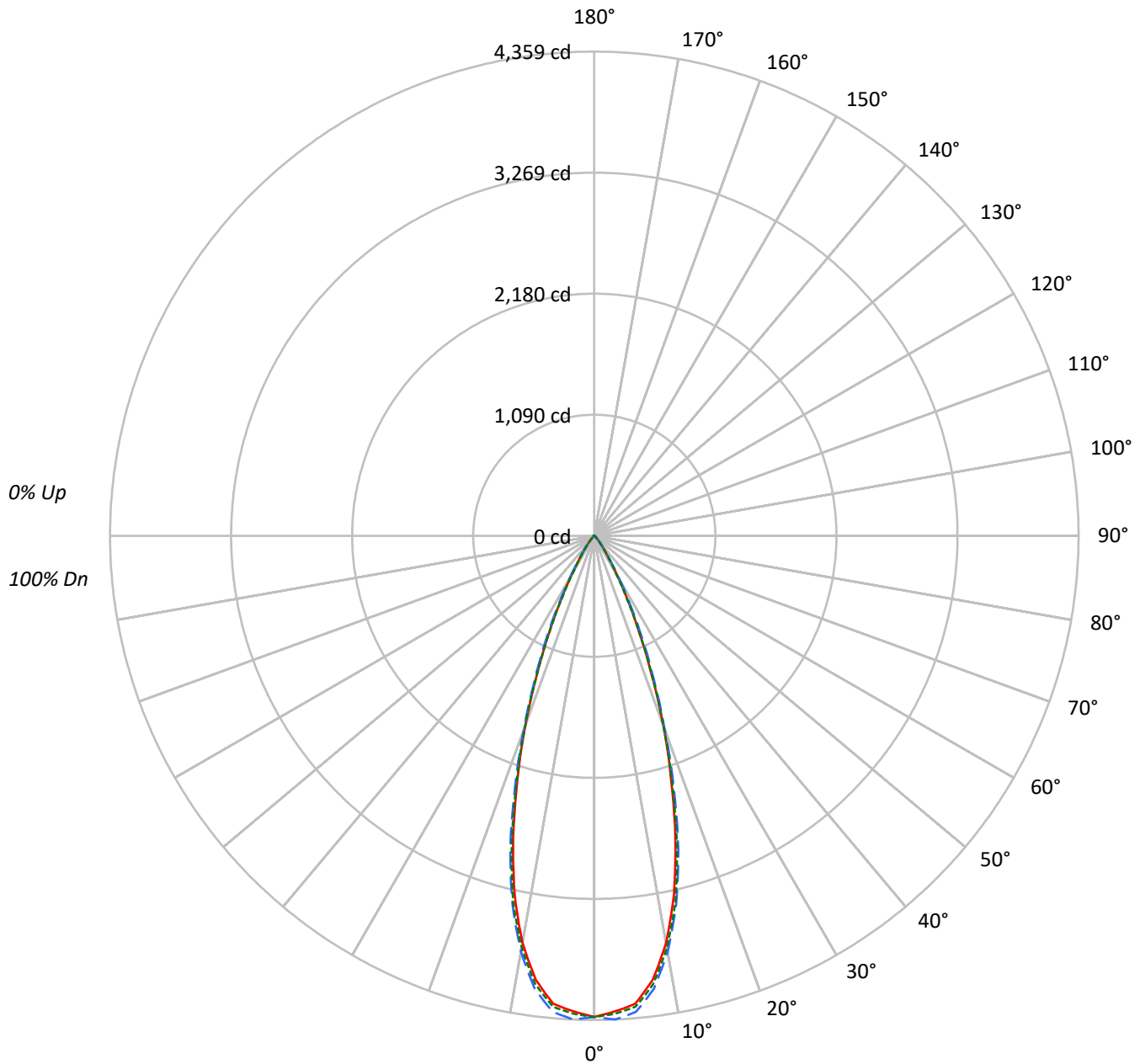
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				70					50					30					0
RW	70	50	30	10	70	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			100
1	115	112	110	108	112	110	108	107		106	105	103			102	101	100			96
2	110	106	103	100	108	105	102	99		101	99	97			98	97	95			91
3	106	101	97	94	104	99	96	93		97	94	91			95	92	90			87
4	102	96	92	88	100	95	91	88		93	89	87			91	88	86			83
5	98	92	87	84	97	91	86	83		89	85	82			88	84	82			80
6	95	88	83	79	93	87	82	79		86	82	79			84	81	78			77
7	91	84	79	76	90	83	79	76		82	78	75			81	78	75			73
8	88	81	76	73	87	80	76	73		79	75	72			78	75	72			71
9	85	78	73	70	84	77	73	70		76	72	69			76	72	69			68
10	82	75	70	67	82	74	70	67		74	70	67			73	69	67			65

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1677983	1677983	1677983
5°	1644849	1673078	1655192
10°	1463746	1495172	1479951
15°	1130929	1171711	1151340
20°	746050	762002	750007
25°	406960	434911	409011
30°	183157	202657	175553
35°	79063	81332	72159
40°	33069	34283	30642
45°	13257	14626	14626
50°	5845	7292	7292
55°	3242	3242	4930
60°	1859	1859	1859
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°	391.6	22.0
10°-20°	779.5	43.8
20°-30°	460.4	25.9
30°-40°	119.9	6.7
40°-50°	23.7	1.3
50°-60°	5.2	0.3
60°-70°	0.4	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°	1631.4	91.6
0°-40°	1751.3	98.4
0°-60°	1780.2	100.0
0°-90°	1780.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4332	4332	4332	4332	4332	
5°	4230	4264	4303	4274	4257	387
15°	2820	2883	2922	2878	2871	765
25°	952	984	1018	979	957	449
35°	167	174	172	170	153	117
45°	24	29	27	27	27	22
55°	5	5	5	5	7	5
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°	4332.0	4332.0	4332.0	4332.0	4332.0
2.5°	4286.0	4329.6	4358.7	4334.4	4307.8
5°	4230.3	4264.2	4302.9	4273.9	4256.9
7.5°	4031.6	4082.5	4111.5	4097.0	4070.4
10°	3721.5	3760.2	3801.4	3786.9	3762.7
12.5°	3312.0	3365.3	3404.1	3370.2	3375.0
15°	2820.2	2883.2	2921.9	2878.3	2871.1
17.5°	2299.3	2347.7	2374.4	2347.7	2328.3
20°	1809.9	1838.9	1848.6	1836.5	1819.5
22.5°	1337.4	1368.9	1398.0	1368.9	1347.1
25°	952.2	983.7	1017.6	978.8	957.0
27.5°	642.0	661.4	690.5	654.2	622.7
30°	409.5	431.3	453.1	426.4	392.5
32.5°	259.2	273.8	276.2	271.4	242.3
35°	167.2	174.4	172.0	169.6	152.6
37.5°	106.6	106.6	109.0	106.6	96.9
40°	65.4	70.3	67.8	65.4	60.6
42.5°	38.8	43.6	41.2	41.2	38.8
45°	24.2	29.1	26.7	26.7	26.7
47.5°	17.0	19.4	17.0	17.0	19.4
50°	9.7	12.1	12.1	12.1	12.1
52.5°	7.3	7.3	7.3	7.3	9.7
55°	4.8	4.8	4.8	4.8	7.3
57.5°	4.8	4.8	2.4	2.4	4.8
60°	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	0.0	0.0	0.0	2.4
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)