

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: P224434

Luminaire Tested: **LD2B20D010 EU2B20FL408030 2LBDSQC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408030 2LBDSQC*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1856.4 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

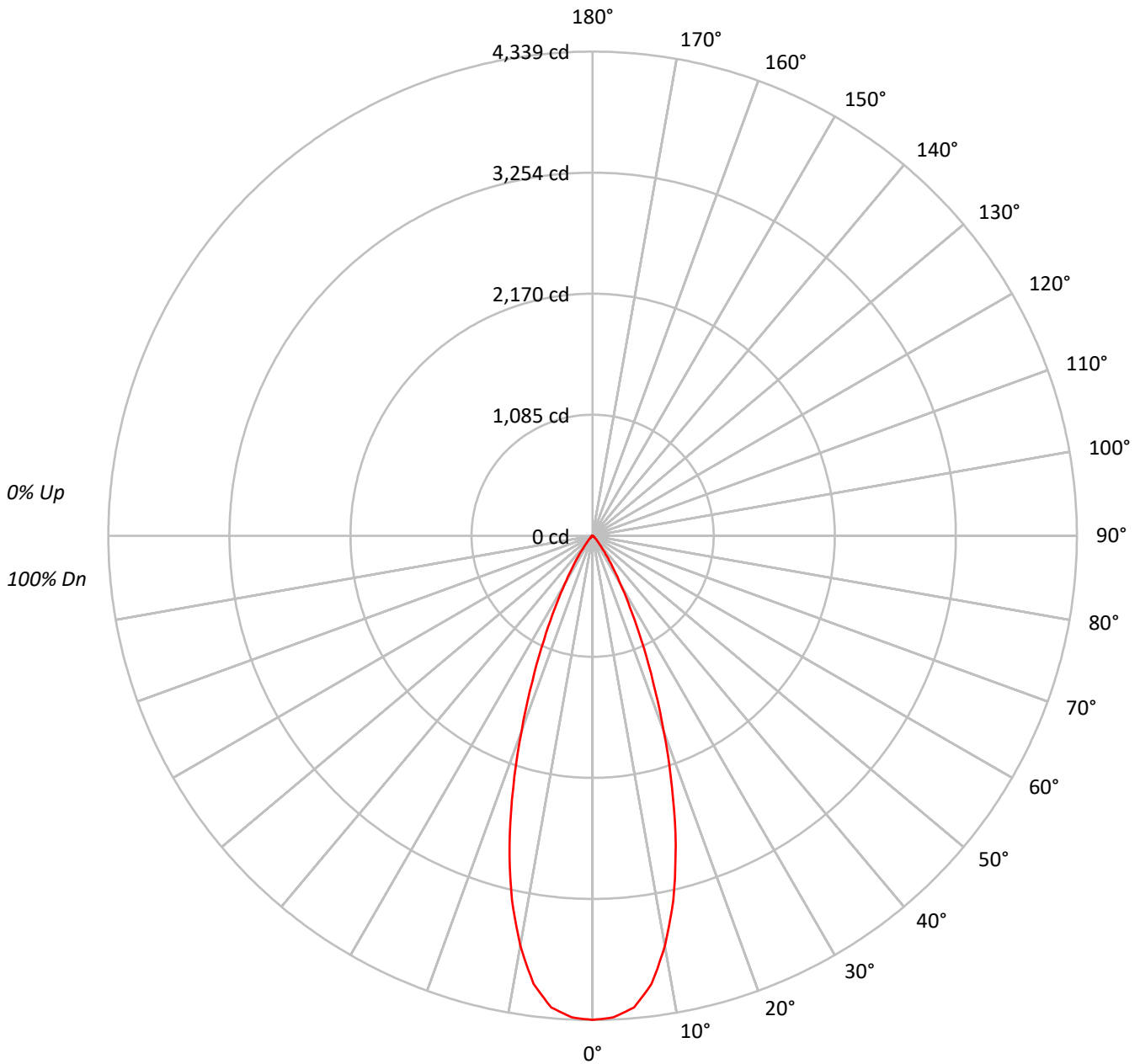
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	99	98	97	95	95	94	92	91																
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	94	92	91	91	91	91	91	91	91	91															
	2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	91	91	91	91	91	91	91	91	91															
	3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86	86	86	86	86	86	86	86	86	86	86	86															
	4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82	82	82	82	82	82	82	82	82	82	82	82															
	5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79	79	79	79	79	79	79	79	79	79	79	79															
	6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75	75	75	75	75	75	75	75	75	75	75	75															
	7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72	72	72	72	72	72	72	72	72	72	72	72	72														
	8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69	69	69	69	69	69	69	69	69	69														
	9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66	66	66	66	66	66	66	66	66	66														
	10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64	64	64	64	64	64	64	64	64	64	64	64														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1680578
5°	1649942
10°	1466735
15°	1153546
20°	767567
25°	440681
30°	222606
35°	104739
40°	42120
45°	20871
50°	11510
55°	8036
60°	7360
65°	4399
70°	5436
75°	3592
80°	5354
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	20.9
10°-20°	779.2	42.0
20°-30°	484.8	26.1
30°-40°	149.1	8.0
40°-50°	32.8	1.8
50°-60°	11.7	0.6
60°-70°	5.9	0.3
70°-80°	3.5	0.2
80°-90°	1.0	0.1
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°	1652.6	89.0
0°-40°	1801.7	97.1
0°-60°	1846.1	99.4
0°-90°	1856.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4339	
5°	4243	389
15°	2877	779
25°	1031	485
35°	222	149
45°	38	33
55°	12	12
65°	5	6
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4338.7
2.5°	4319.6
5°	4243.4
7.5°	4050.5
10°	3729.1
12.5°	3343.3
15°	2876.6
17.5°	2367.0
20°	1862.1
22.5°	1412.1
25°	1031.1
27.5°	726.3
30°	497.7
32.5°	335.8
35°	221.5
37.5°	133.4
40°	83.3
42.5°	57.2
45°	38.1
47.5°	26.2
50°	19.1
52.5°	16.7
55°	11.9
57.5°	9.5
60°	9.5
62.5°	7.1
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)