

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: P225525

Luminaire Tested: **LD2B20D010 EU2B20FL408040 2LBDL*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL408040 2LBDL*H
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH HAZE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1833.9 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

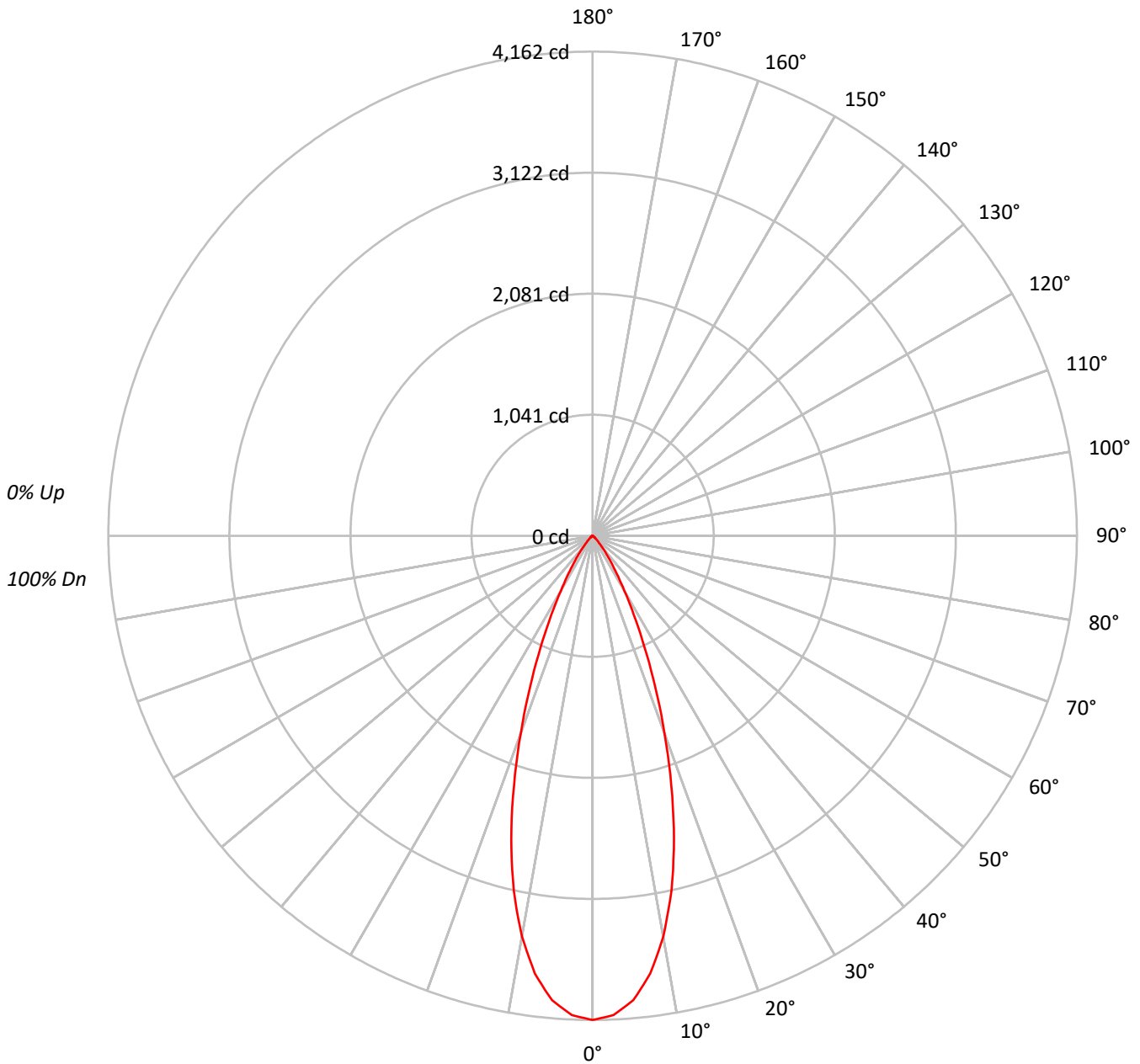
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				70				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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86			
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82			
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1612095
5°	1558413
10°	1375052
15°	1083289
20°	744442
25°	449528
30°	243672
35°	125214
40°	61234
45°	29033
50°	15186
55°	10197
60°	5888
65°	2291
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.2	20.0
10°-20°	735.4	40.1
20°-30°	491.3	26.8
30°-40°	177.9	9.7
40°-50°	45.9	2.5
50°-60°	13.7	0.7
60°-70°	3.4	0.2
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°	1592.9	86.9
0°-40°	1770.9	96.6
0°-60°	1830.5	99.8
0°-90°	1833.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4162	
5°	4008	366
15°	2701	735
25°	1052	491
35°	265	178
45°	53	46
55°	15	14
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4161.9
2.5°	4124.0
5°	4008.0
7.5°	3796.1
10°	3496.0
12.5°	3127.7
15°	2701.4
17.5°	2247.4
20°	1806.0
22.5°	1399.9
25°	1051.8
27.5°	766.8
30°	544.8
32.5°	383.4
35°	264.8
37.5°	184.1
40°	121.1
42.5°	78.2
45°	53.0
47.5°	37.8
50°	25.2
52.5°	20.2
55°	15.1
57.5°	10.1
60°	7.6
62.5°	5.0
65°	2.5
67.5°	2.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)