

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: P225416

Luminaire Tested: **LD2B20D010 EU2B20FL409730 2LBDC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409730 2LBDC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.4 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

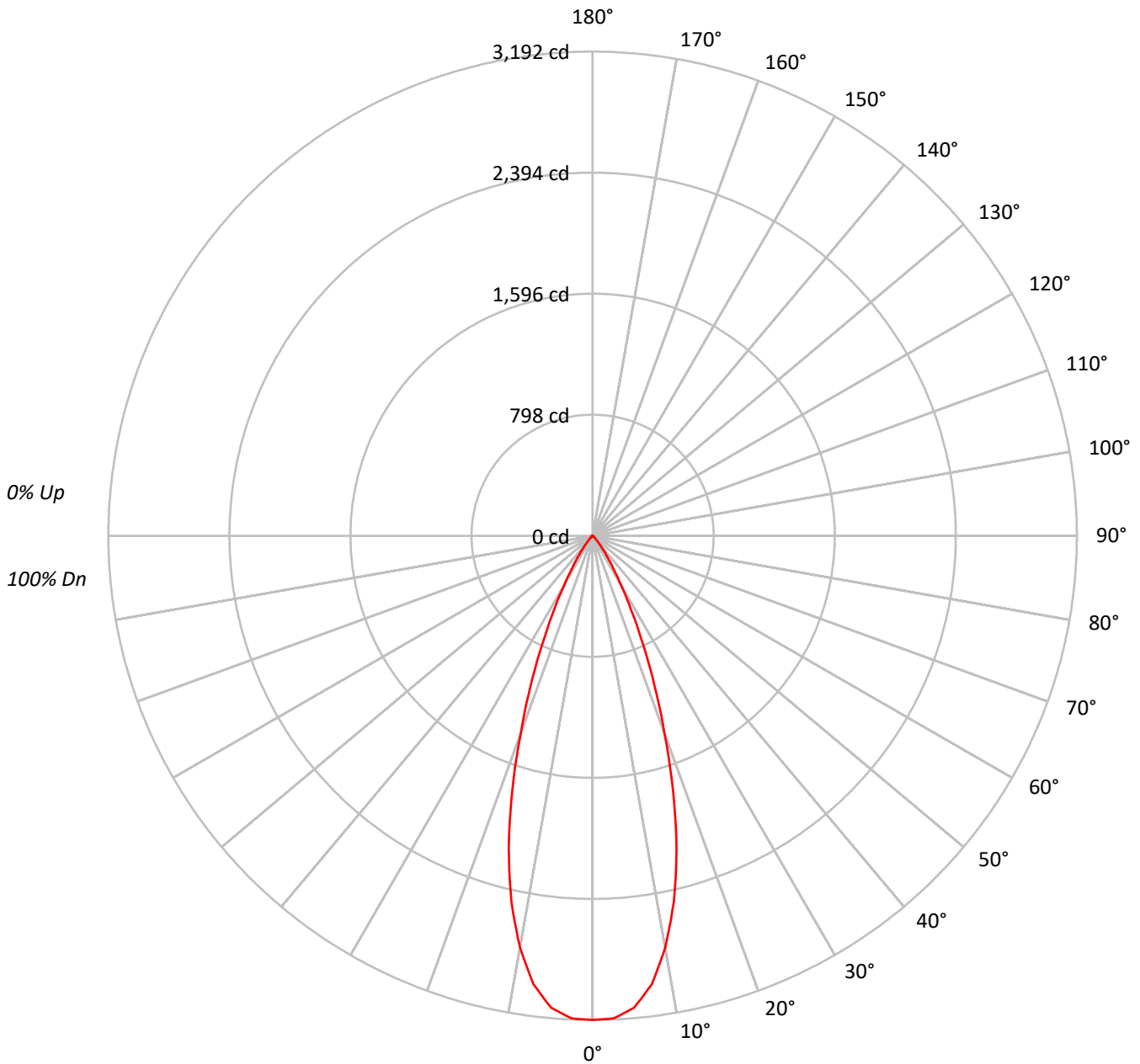
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1236292
5°	1214808
10°	1083719
15°	856598
20°	571151
25°	331355
30°	165847
35°	78022
40°	30490
45°	13585
50°	6388
55°	3579
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	21.0
10°-20°	578.2	42.3
20°-30°	363.7	26.6
30°-40°	111.2	8.1
40°-50°	21.8	1.6
50°-60°	4.9	0.4
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°	1228.3	89.9
0°-40°	1339.4	98.0
0°-60°	1366.1	100.0
0°-90°	1366.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3192	
5°	3124	286
15°	2136	578
25°	775	364
35°	165	111
45°	25	22
55°	5	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3191.7
2.5°	3184.6
5°	3124.3
7.5°	2982.4
10°	2755.3
12.5°	2471.4
15°	2136.1
17.5°	1763.5
20°	1385.6
22.5°	1062.7
25°	775.3
27.5°	546.4
30°	370.8
32.5°	250.2
35°	165.0
37.5°	101.1
40°	60.3
42.5°	39.0
45°	24.8
47.5°	16.0
50°	10.6
52.5°	7.1
55°	5.3
57.5°	3.5
60°	1.8
62.5°	0.0
65°	0.0
67.5°	0.0
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)