

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: P225497

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBDL*H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225497
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 EU2B20FL409050 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: 1531.1 lumens
Efficiency: N/A
Efficacy: 73.3 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

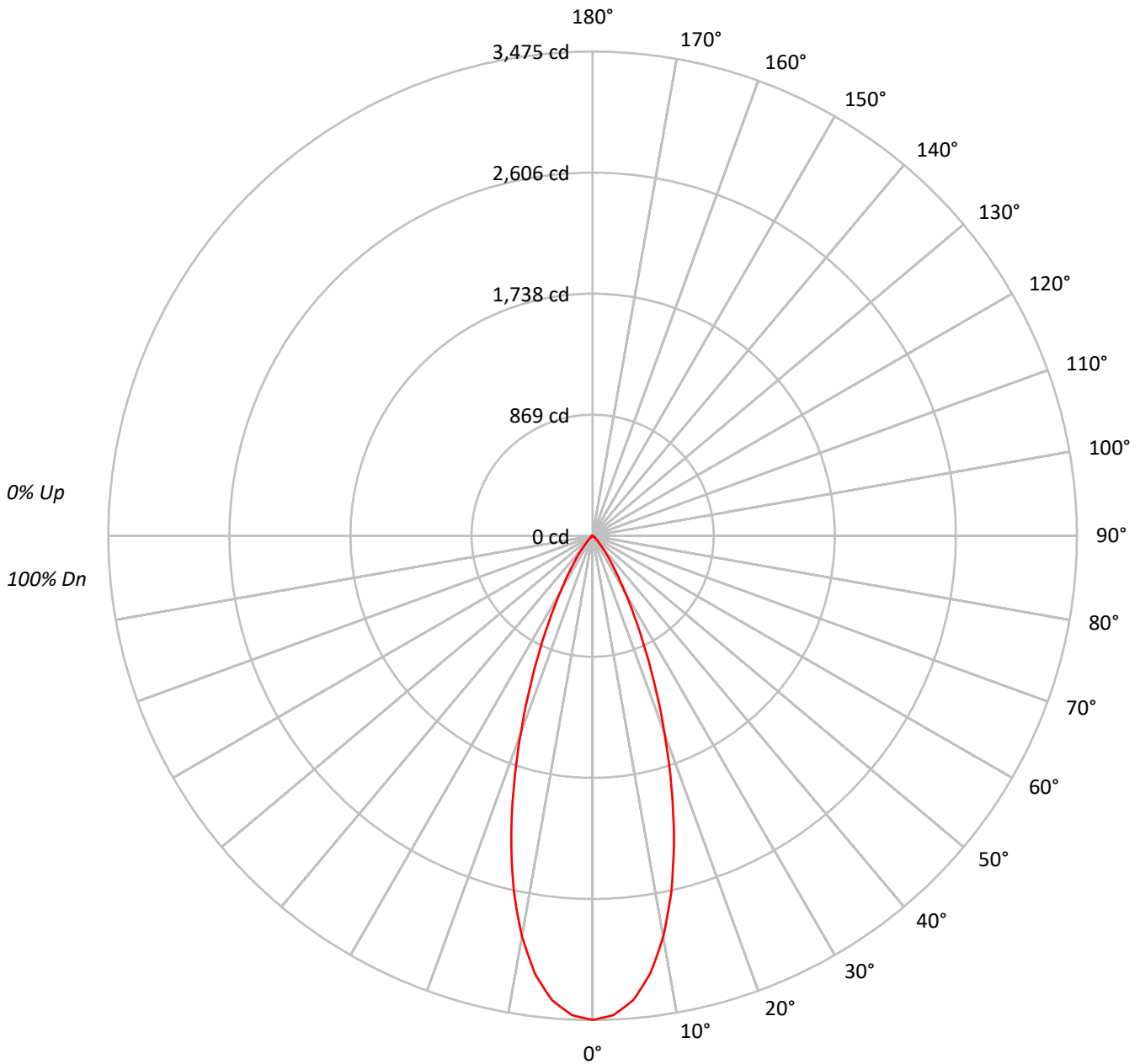
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			90																
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86			86																
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82			82																
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78			78																
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74			74																
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71			71																
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68			68																
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65			65																
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62			62																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1345911
5°	1301088
10°	1147987
15°	904438
20°	621523
25°	375290
30°	203462
35°	104550
40°	51121
45°	24212
50°	12715
55°	8509
60°	4881
65°	1925
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	20.0
10°-20°	614.0	40.1
20°-30°	410.2	26.8
30°-40°	148.6	9.7
40°-50°	38.4	2.5
50°-60°	11.4	0.7
60°-70°	2.8	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°	1329.9	86.9
0°-40°	1478.5	96.6
0°-60°	1528.2	99.8
0°-90°	1531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3475	
5°	3346	306
15°	2255	614
25°	878	410
35°	221	149
45°	44	38
55°	13	11
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3474.7
2.5°	3443.1
5°	3346.2
7.5°	3169.3
10°	2918.7
12.5°	2611.3
15°	2255.4
17.5°	1876.3
20°	1507.8
22.5°	1168.8
25°	878.1
27.5°	640.2
30°	454.9
32.5°	320.1
35°	221.1
37.5°	153.7
40°	101.1
42.5°	65.3
45°	44.2
47.5°	31.6
50°	21.1
52.5°	16.8
55°	12.6
57.5°	8.4
60°	6.3
62.5°	4.2
65°	2.1
67.5°	2.1
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)