

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: P224591

Luminaire Tested: **LD2B20D010 EU2B20FL409030 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224591
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 EU2B20FL409030 2LBDL*GPH
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1422.1 lumens
Efficiency: N/A
Efficacy: 68.0 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

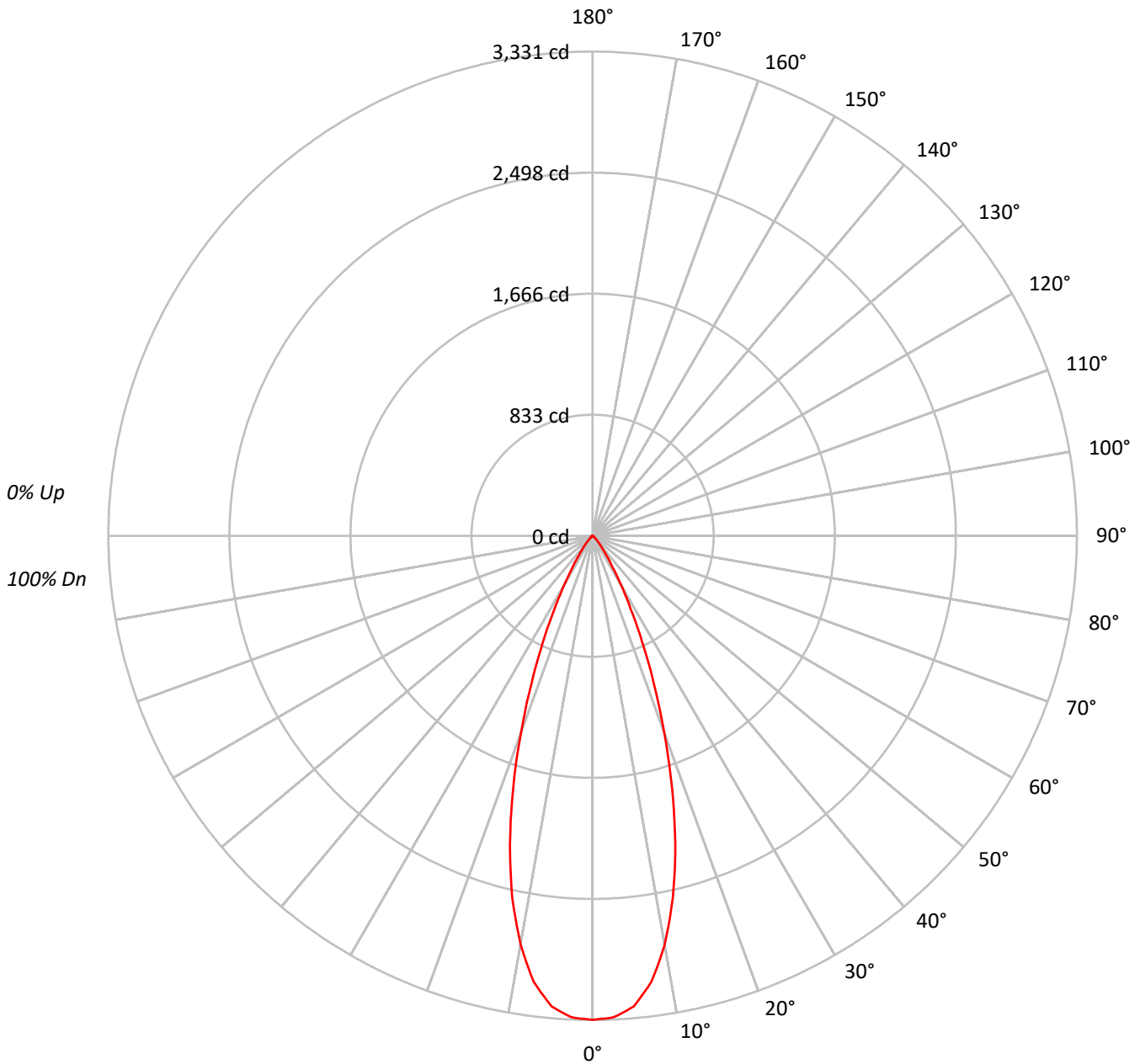
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1290095
5°	1263994
10°	1123129
15°	881180
20°	592627
25°	344817
30°	172735
35°	80576
40°	37569
45°	15886
50°	7653
55°	4930
60°	2789
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	20.9
10°-20°	596.5	41.9
20°-30°	377.2	26.5
30°-40°	117.3	8.2
40°-50°	26.1	1.8
50°-60°	6.6	0.5
60°-70°	0.9	0.1
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°	1271.2	89.4
0°-40°	1388.5	97.6
0°-60°	1421.2	99.9
0°-90°	1422.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3331	
5°	3251	298
15°	2197	596
25°	807	377
35°	170	117
45°	29	26
55°	7	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3330.6
2.5°	3316.0
5°	3250.8
7.5°	3096.7
10°	2855.5
12.5°	2550.9
15°	2197.4
17.5°	1814.9
20°	1437.7
22.5°	1098.7
25°	806.8
27.5°	565.7
30°	386.2
32.5°	255.6
35°	170.4
37.5°	114.2
40°	74.3
42.5°	45.3
45°	29.0
47.5°	19.9
50°	12.7
52.5°	9.1
55°	7.3
57.5°	5.4
60°	3.6
62.5°	1.8
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)