

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: P224592

Luminaire Tested: **LD2B20D010 EU2B20FL409035 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224592
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 EU2B20FL409035 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: 1477.8 lumens
Efficiency: N/A
Efficacy: 70.7 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

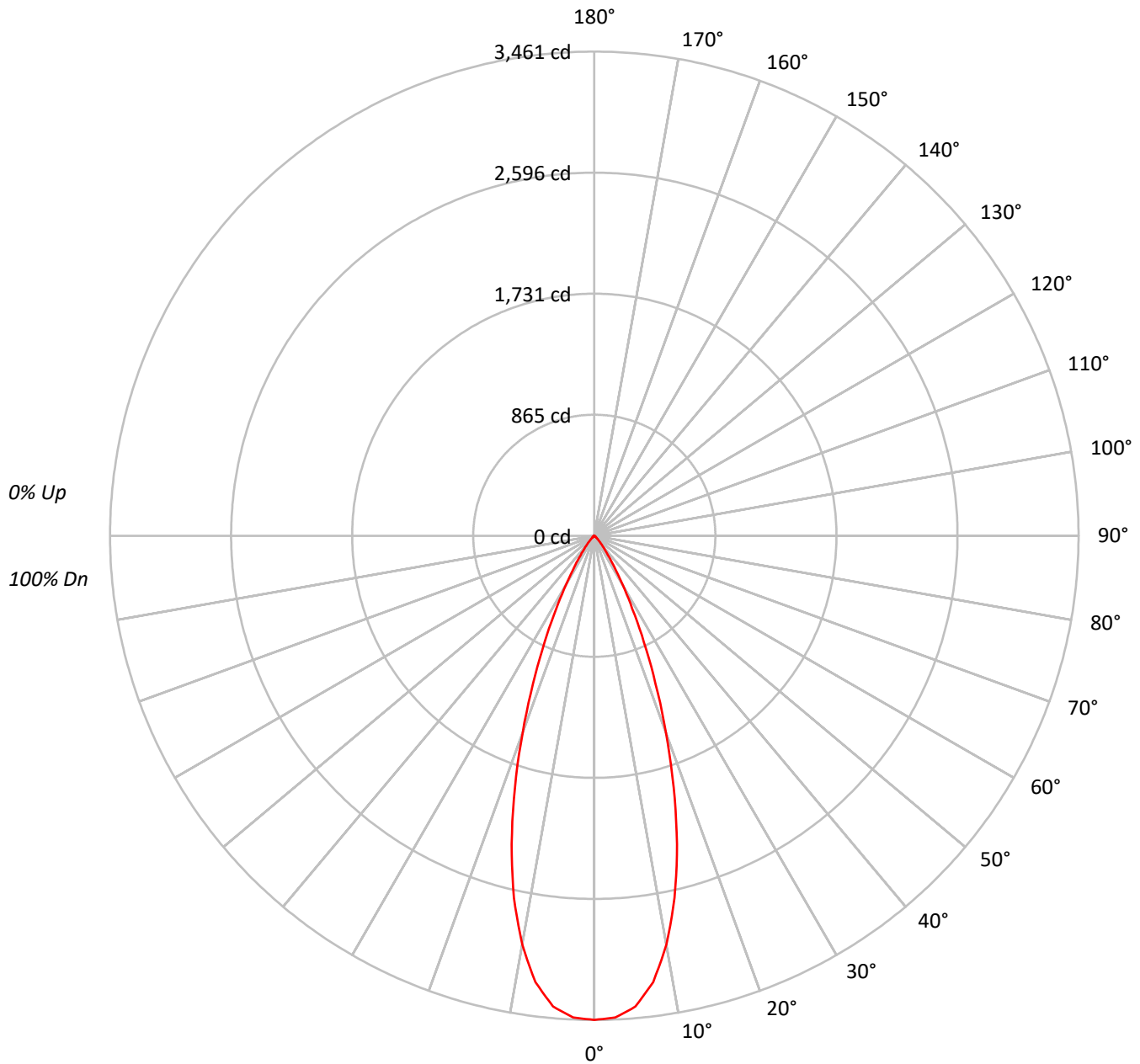
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	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			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	110	106	102	100		108	104	101	98		101	99	96			98	96	94			91
3	106	100	96	93		104	99	95	92		96	93	91			94	92	89			87
4	102	95	91	87		100	94	90	87		92	89	86			90	87	85			83
5	98	91	86	83		96	90	85	82		88	84	81			87	83	81			79
6	94	87	82	78		93	86	81	78		85	81	78			83	80	77			75
7	91	83	78	75		89	82	78	74		81	77	74			80	76	74			72
8	87	80	75	71		86	79	74	71		78	74	71			77	73	71			69
9	84	76	72	68		83	76	71	68		75	71	68			74	70	68			66
10	81	73	69	65		80	73	68	65		72	68	65			72	68	65			64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1340604
5°	1313492
10°	1167142
15°	915707
20°	615875
25°	358323
30°	179489
35°	83744
40°	39036
45°	16488
50°	7954
55°	5065
60°	2944
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	20.9
10°-20°	619.8	41.9
20°-30°	391.9	26.5
30°-40°	121.9	8.3
40°-50°	27.1	1.8
50°-60°	6.9	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°	1321.0	89.4
0°-40°	1442.9	97.6
0°-60°	1476.9	99.9
0°-90°	1477.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1477.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3461	
5°	3378	309
15°	2284	620
25°	838	392
35°	177	122
45°	30	27
55°	8	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3461.0
2.5°	3445.9
5°	3378.1
7.5°	3218.0
10°	2967.4
12.5°	2650.9
15°	2283.5
17.5°	1885.9
20°	1494.1
22.5°	1141.7
25°	838.4
27.5°	587.8
30°	401.3
32.5°	265.7
35°	177.1
37.5°	118.7
40°	77.2
42.5°	47.1
45°	30.1
47.5°	20.7
50°	13.2
52.5°	9.4
55°	7.5
57.5°	5.7
60°	3.8
62.5°	1.9
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)