

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: P223080

Luminaire Tested: **LD2B05D010 EU2B05NFL258050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05NFL258050 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 698.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

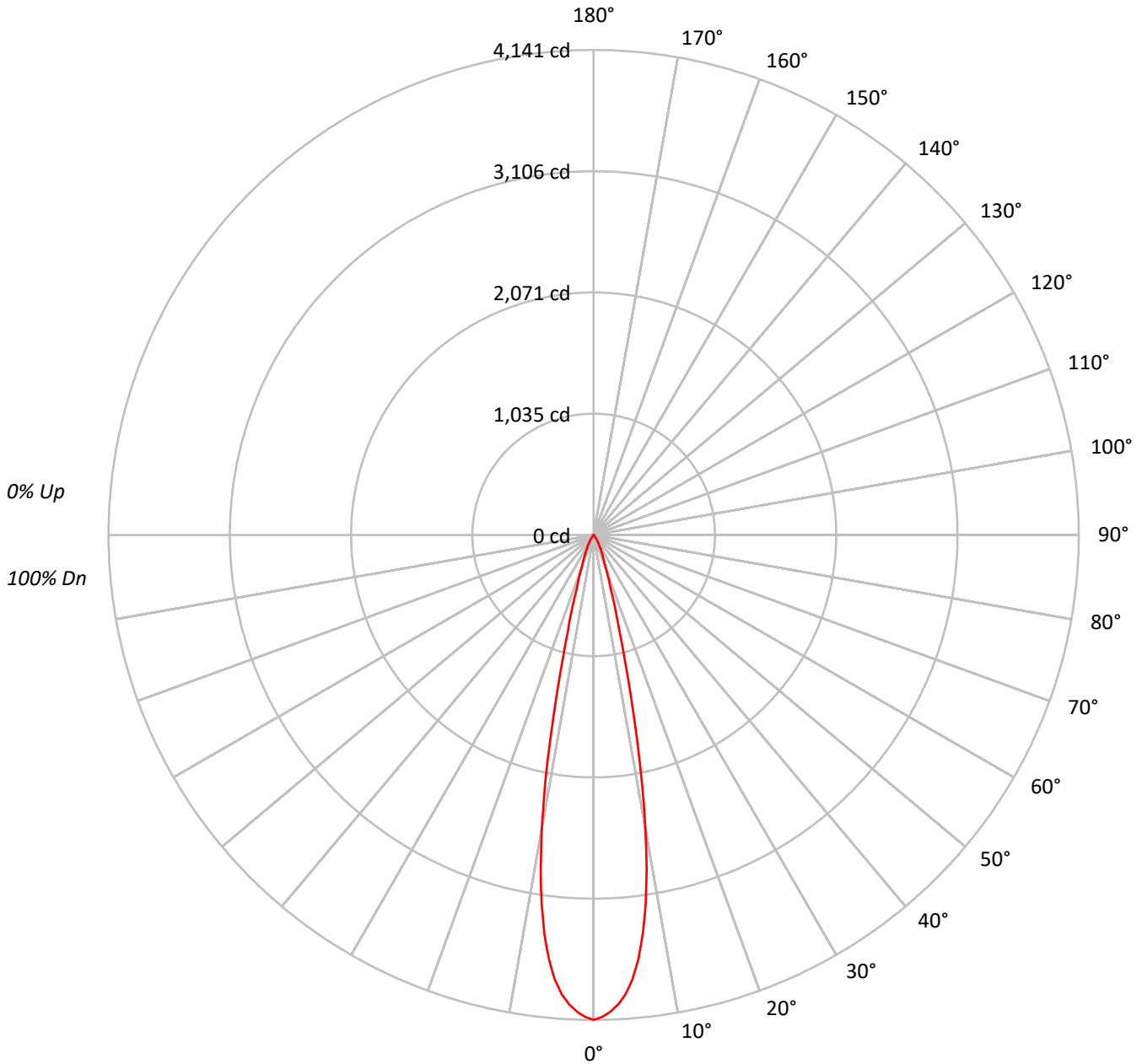
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																												
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95																												
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92																												
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90																												
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88																												
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																												
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84																												
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																												
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80																												
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1604000
5°	1480998
10°	1002458
15°	341059
20°	125269
25°	66416
30°	34127
35°	15935
40°	5208
45°	2629
50°	1265
55°	473
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.0	46.4
10°-20°	272.4	39.0
20°-30°	74.8	10.7
30°-40°	21.8	3.1
40°-50°	4.1	0.6
50°-60°	0.9	0.1
60°-70°	0.1	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°	671.2	96.2
0°-40°	693.0	99.3
0°-60°	698.0	100.0
0°-90°	698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4141	
5°	3809	324
15°	850	272
25°	155	75
35°	34	22
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4141.0
1°	4116.9
2°	4074.3
3°	4013.1
4°	3929.2
5°	3808.9
6°	3644.6
7°	3439.0
8°	3188.1
9°	2891.7
10°	2548.7
11°	2172.6
12°	1781.4
13°	1408.1
14°	1089.7
15°	850.5
17.5°	479.9
20°	303.9
22.5°	216.6
25°	155.4
27.5°	110.0
30°	76.3
32.5°	53.6
35°	33.7
37.5°	13.8
40°	10.3
42.5°	7.6
45°	4.8
47.5°	2.8
50°	2.1
52.5°	1.4
55°	0.7
57.5°	0.7
60°	0.7
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)