

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: P224206

Luminaire Tested: **LD2B05D010 EU2B05SP158027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05SP158027 2LBDSQLC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

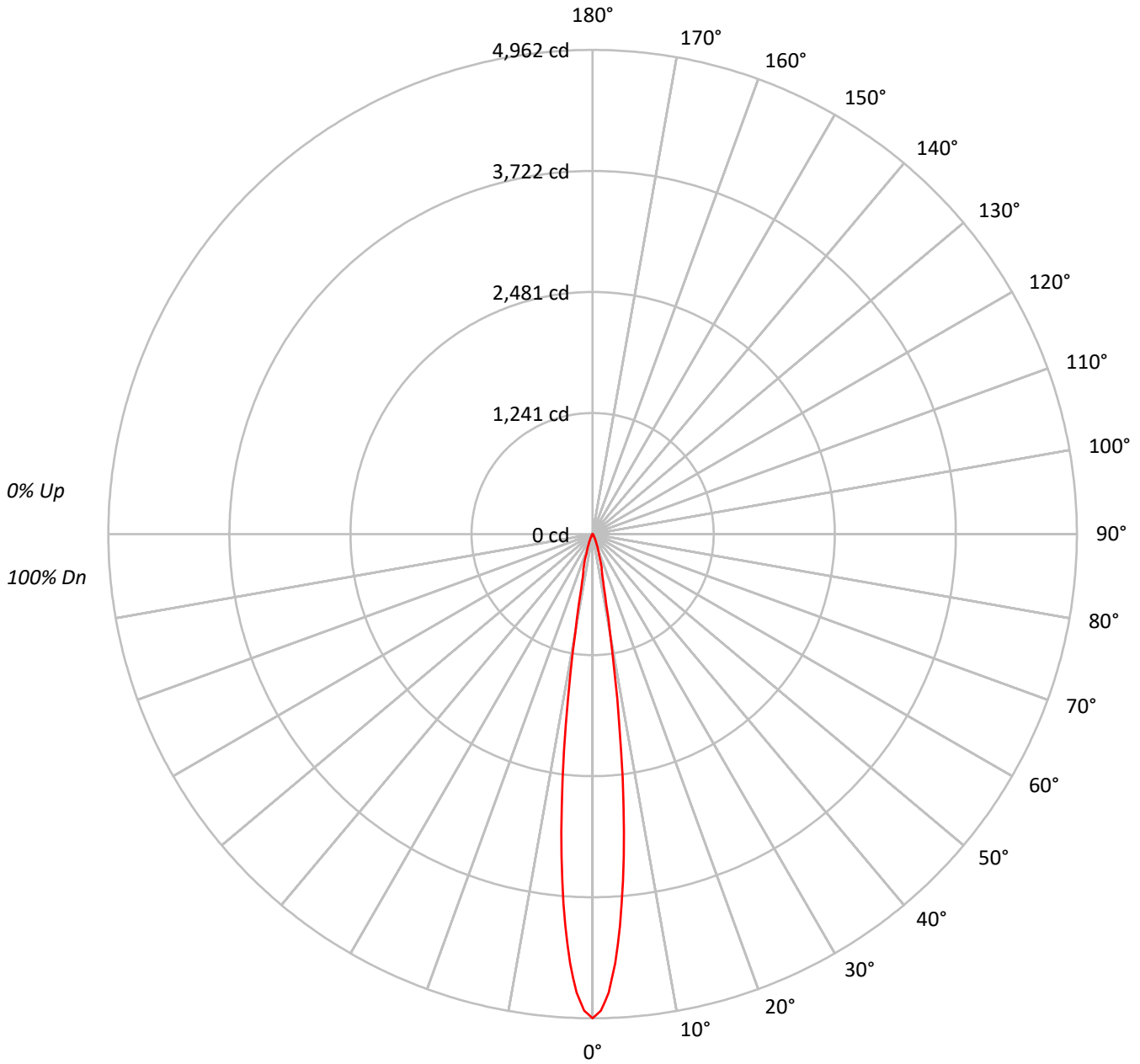
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																							
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102		100
1	116	114	112	111		113	112	110	109		108	107	106		104	103	103		101	100	100		98
2	113	110	107	105		111	108	106	104		105	103	102		102	101	100		100	99	98		96
3	110	106	103	101		108	105	102	100		102	100	98		100	98	97		98	97	96		94
4	108	103	100	97		106	102	99	97		100	98	96		98	96	95		97	95	94		93
5	105	101	97	95		104	100	97	94		98	96	94		97	95	93		95	94	92		91
6	103	98	95	93		102	98	95	92		96	94	92		95	93	91		94	92	91		90
7	101	96	93	91		100	96	93	90		95	92	90		94	91	90		93	91	89		88
8	100	94	91	89		99	94	91	89		93	90	89		92	90	88		92	90	88		87
9	98	93	90	88		97	92	89	87		92	89	87		91	89	87		90	88	87		86
10	96	91	88	86		96	91	88	86		90	88	86		90	87	86		89	87	86		85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1922088
5°	1389468
10°	404531
15°	141917
20°	60759
25°	27353
30°	10556
35°	5249
40°	3540
45°	2301
50°	1265
55°	945
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	63.2
10°-20°	102.9	25.7
20°-30°	31.6	7.9
30°-40°	7.8	1.9
40°-50°	3.3	0.8
50°-60°	1.4	0.4
60°-70°	0.3	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°	387.3	96.8
0°-40°	395.1	98.8
0°-60°	399.8	99.9
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4962	
5°	3574	253
15°	354	103
25°	64	32
35°	11	8
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4962.2
1°	4886.4
2°	4701.4
3°	4406.6
4°	4021.3
5°	3573.5
6°	3068.7
7°	2520.7
8°	1965.1
9°	1445.7
10°	1028.5
11°	737.1
12°	554.2
13°	451.3
14°	395.0
15°	353.9
17.5°	218.3
20°	147.4
22.5°	98.7
25°	64.0
27.5°	38.9
30°	23.6
32.5°	15.3
35°	11.1
37.5°	9.0
40°	7.0
42.5°	5.6
45°	4.2
47.5°	2.8
50°	2.1
52.5°	2.1
55°	1.4
57.5°	1.4
60°	0.7
62.5°	0.7
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):





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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)