

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: P223669

Luminaire Tested: **LD2B05D010 EU2B05SP159050 2LBDSQLC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223669
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 EU2B05SP159050 2LBDSQLC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 368.0 lumens
Efficiency: N/A
Efficacy: 50.4 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

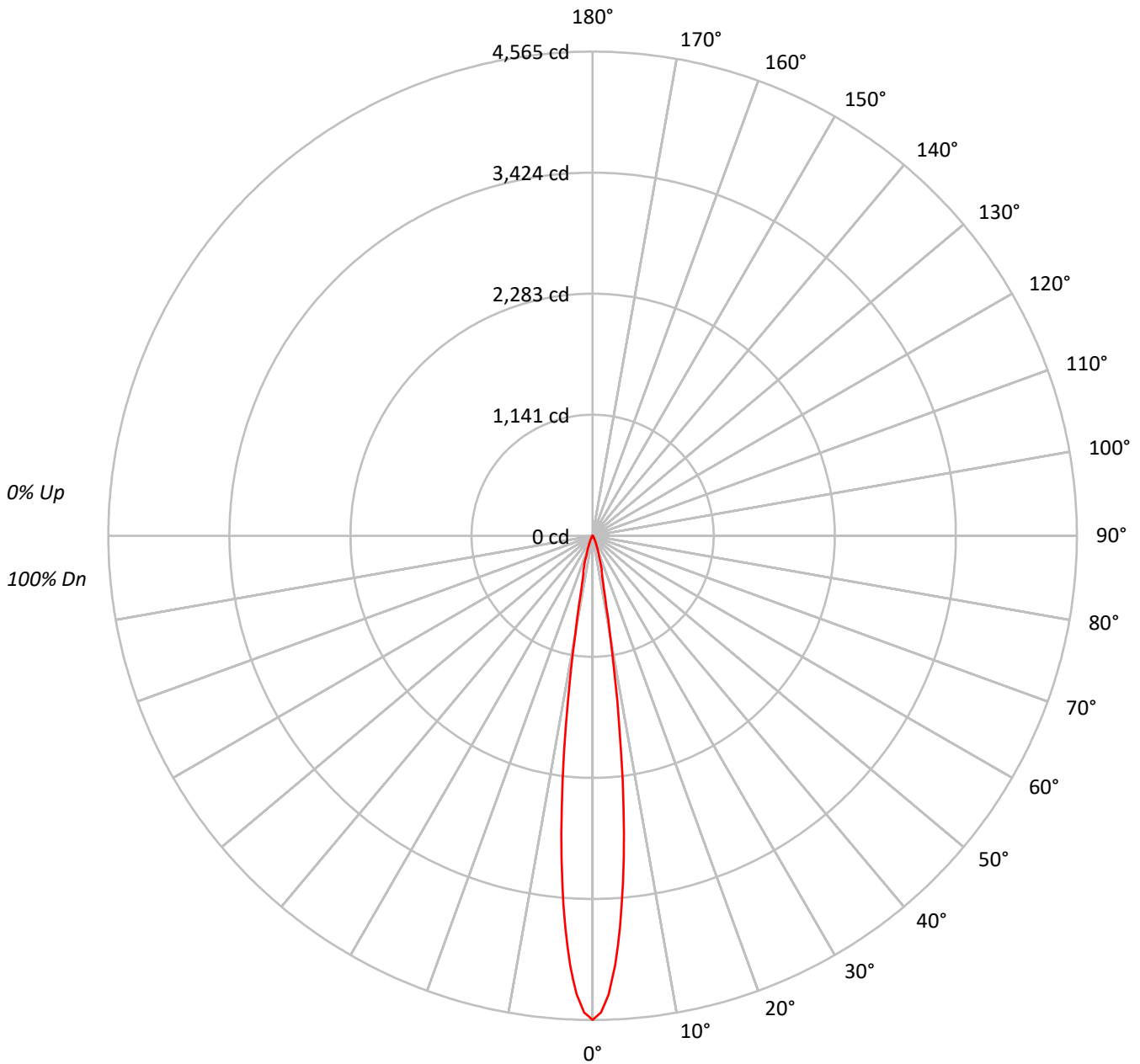
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1768312
5°	1278303
10°	372161
15°	130569
20°	55895
25°	25173
30°	9750
35°	4823
40°	3236
45°	2082
50°	1145
55°	878
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	63.2
10°-20°	94.6	25.7
20°-30°	29.0	7.9
30°-40°	7.2	1.9
40°-50°	3.0	0.8
50°-60°	1.3	0.3
60°-70°	0.2	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°	356.3	96.8
0°-40°	363.5	98.8
0°-60°	367.8	99.9
0°-90°	368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	368.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4565	
5°	3288	233
15°	326	95
25°	59	29
35°	10	7
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°	4565.2
1°	4495.5
2°	4325.3
3°	4054.1
4°	3699.6
5°	3287.6
6°	2823.2
7°	2319.1
8°	1807.9
9°	1330.0
10°	946.2
11°	678.1
12°	509.9
13°	415.2
14°	363.4
15°	325.6
17.5°	200.9
20°	135.6
22.5°	90.8
25°	58.9
27.5°	35.8
30°	21.8
32.5°	14.1
35°	10.2
37.5°	8.3
40°	6.4
42.5°	5.1
45°	3.8
47.5°	2.6
50°	1.9
52.5°	1.9
55°	1.3
57.5°	1.3
60°	0.6
62.5°	0.6
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)