

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: P224235

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDSQLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409050 2LBDSQLC*MMS
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 595.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

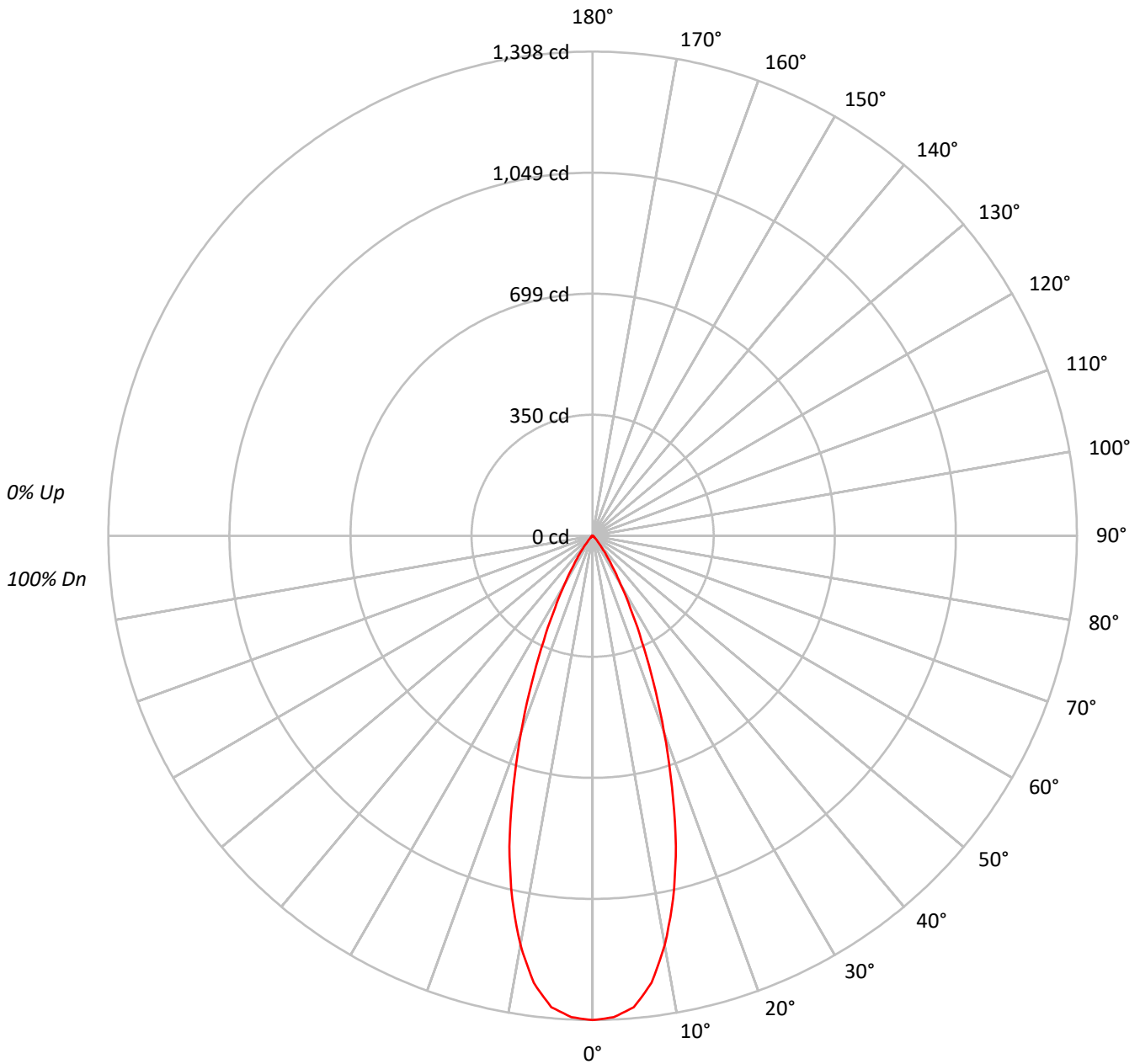
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95															
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91				91															
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87				87															
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83				83															
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	82	80	79				79															
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76				76															
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72				72															
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69				69															
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67				67															
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64				64															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	541626
5°	531214
10°	471868
15°	372378
20°	248354
25°	142962
30°	72413
35°	33952
40°	13905
45°	6300
50°	3194
55°	2093
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	21.0
10°-20°	250.9	42.2
20°-30°	157.2	26.4
30°-40°	48.6	8.2
40°-50°	10.1	1.7
50°-60°	2.8	0.5
60°-70°	0.4	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°	533.1	89.6
0°-40°	581.8	97.8
0°-60°	594.6	99.9
0°-90°	595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1398	
5°	1366	125
15°	929	251
25°	334	157
35°	72	49
45°	12	10
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1398.3
2.5°	1391.4
5°	1366.2
7.5°	1302.0
10°	1199.7
12.5°	1073.7
15°	928.6
17.5°	761.4
20°	602.5
22.5°	458.2
25°	334.5
27.5°	235.2
30°	161.9
32.5°	108.4
35°	71.8
37.5°	45.1
40°	27.5
42.5°	17.6
45°	11.5
47.5°	7.6
50°	5.3
52.5°	3.8
55°	3.1
57.5°	2.3
60°	1.5
62.5°	0.8
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)