

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: P225167

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05FL409024 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 522.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

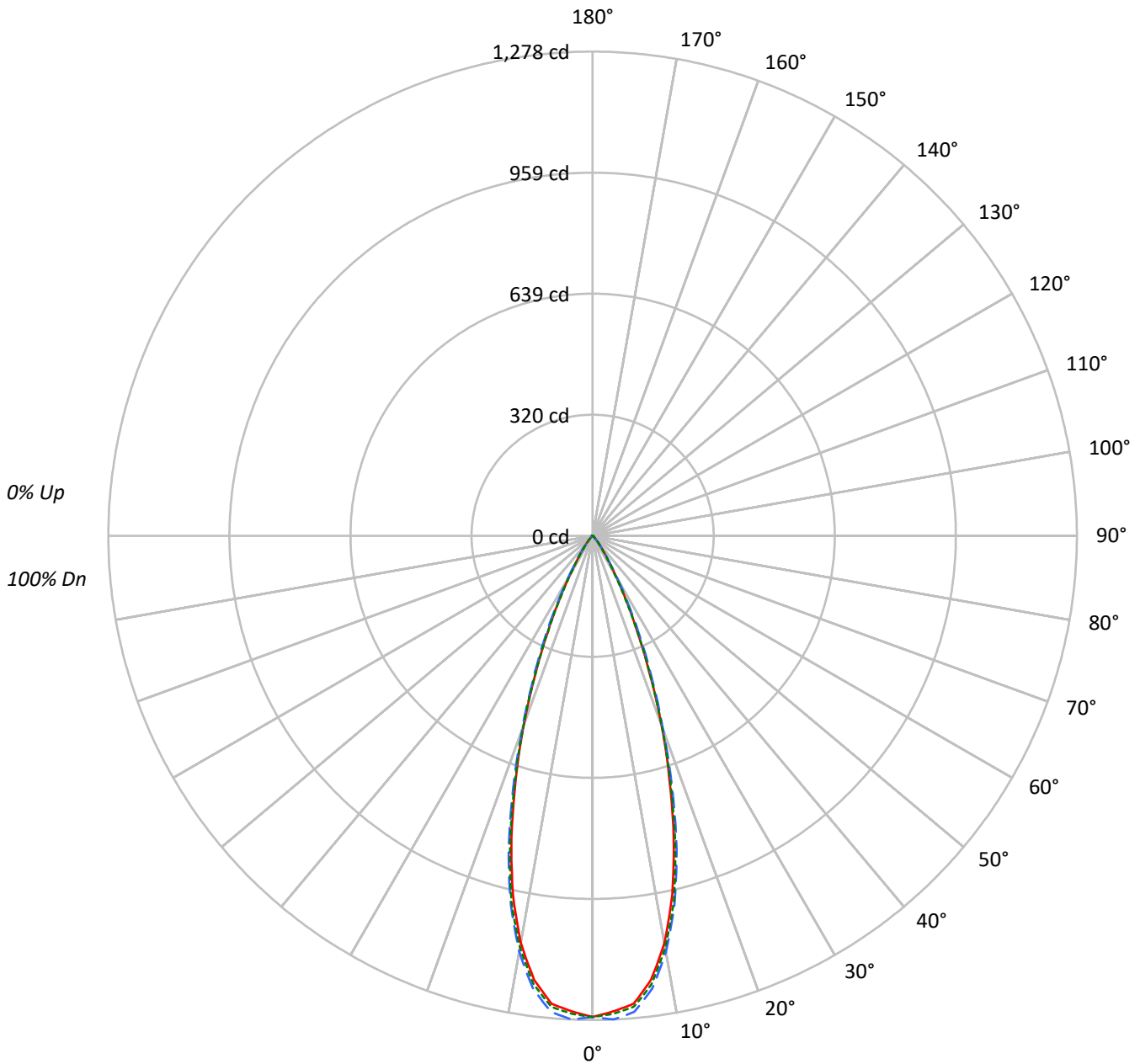
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	491929	491929	491929
5°	482183	490465	485254
10°	429114	438317	433873
15°	331555	343505	337530
20°	218716	223374	219870
25°	119284	127490	119925
30°	53672	59397	51481
35°	23170	23832	21137
40°	9708	10062	9000
45°	3889	4273	4273
50°	1687	2169	2169
55°	945	945	1418
60°	542	542	542
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	22.0
10°-20°	228.5	43.8
20°-30°	135.0	25.9
30°-40°	35.1	6.7
40°-50°	7.0	1.3
50°-60°	1.5	0.3
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°	478.3	91.6
0°-40°	513.4	98.4
0°-60°	521.9	100.0
0°-90°	522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1240	1250	1261	1253	1248	113
15°	827	845	857	844	842	224
25°	279	288	298	287	281	132
35°	49	51	50	50	45	34
45°	7	8	8	8	8	7
55°	1	1	1	1	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.0	1270.0	1270.0	1270.0	1270.0
2.5°	1256.5	1269.3	1277.8	1270.7	1262.9
5°	1240.1	1250.1	1261.4	1252.9	1248.0
7.5°	1181.9	1196.8	1205.3	1201.1	1193.3
10°	1091.0	1102.3	1114.4	1110.2	1103.1
12.5°	970.9	986.6	997.9	988.0	989.4
15°	826.8	845.2	856.6	843.8	841.7
17.5°	674.1	688.3	696.1	688.3	682.6
20°	530.6	539.1	541.9	538.4	533.4
22.5°	392.1	401.3	409.8	401.3	394.9
25°	279.1	288.4	298.3	287.0	280.6
27.5°	188.2	193.9	202.4	191.8	182.5
30°	120.0	126.4	132.8	125.0	115.1
32.5°	76.0	80.3	81.0	79.6	71.0
35°	49.0	51.1	50.4	49.7	44.7
37.5°	31.3	31.3	32.0	31.3	28.4
40°	19.2	20.6	19.9	19.2	17.8
42.5°	11.4	12.8	12.1	12.1	11.4
45°	7.1	8.5	7.8	7.8	7.8
47.5°	5.0	5.7	5.0	5.0	5.7
50°	2.8	3.6	3.6	3.6	3.6
52.5°	2.1	2.1	2.1	2.1	2.8
55°	1.4	1.4	1.4	1.4	2.1
57.5°	1.4	1.4	0.7	0.7	1.4
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)