

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: P225173

Luminaire Tested: **LD2B05D010 EU2B05FL409727 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225173
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 EU2B05FL409727 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: 506.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

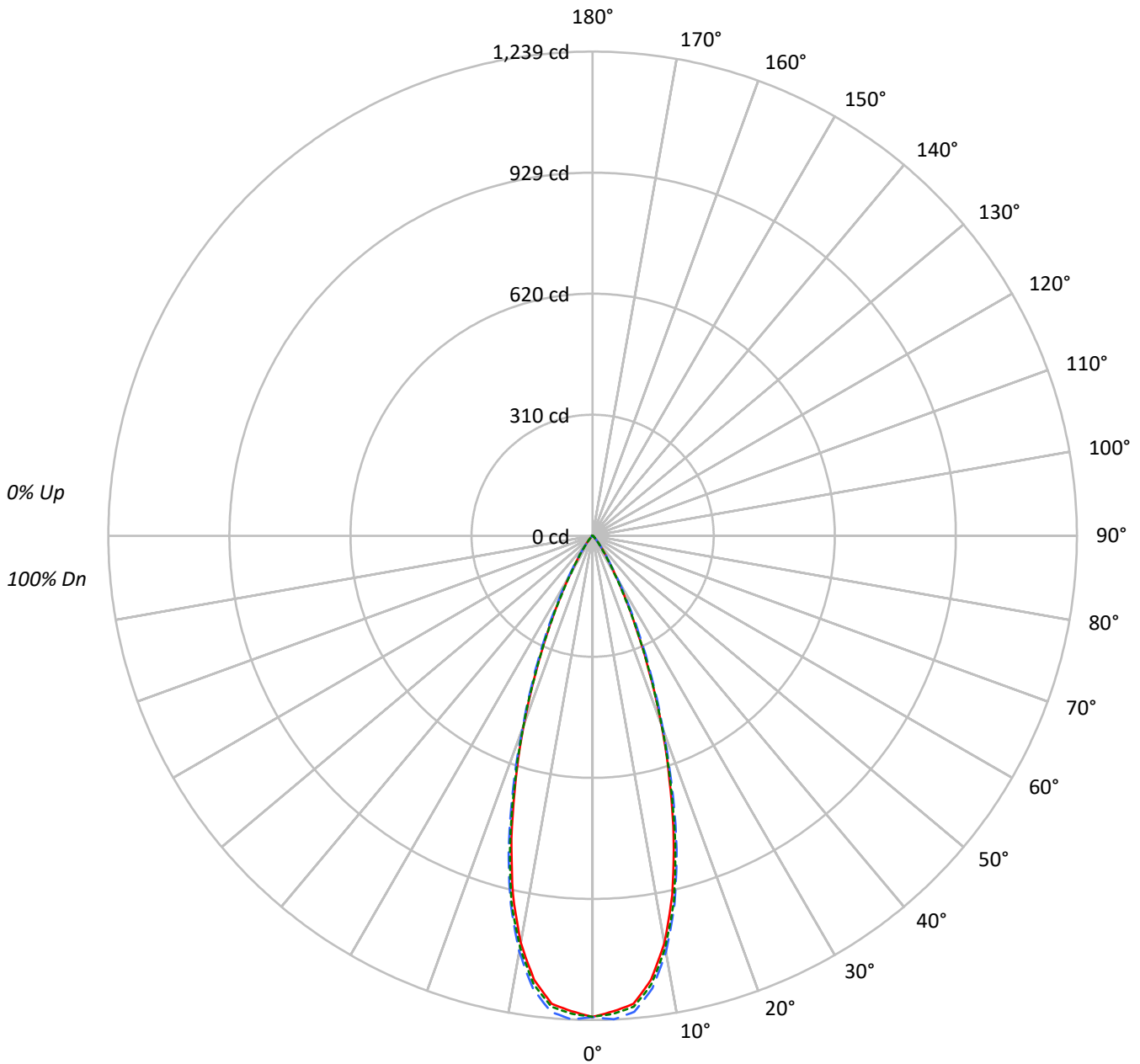
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	476823	476823	476823
5°	467407	475456	470362
10°	415937	424905	420539
15°	321369	332959	327184
20°	211997	216531	213151
25°	115651	123601	116250
30°	52062	57608	49870
35°	22461	23123	20522
40°	9405	9759	8697
45°	3780	4163	4163
50°	1687	2049	2049
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°	111.3	22.0
10°-20°	221.5	43.8
20°-30°	130.8	25.9
30°-40°	34.1	6.7
40°-50°	6.7	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°	463.6	91.6
0°-40°	497.7	98.3
0°-60°	505.9	100.0
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1202	1212	1223	1214	1210	110
15°	801	819	830	818	816	217
25°	271	280	289	278	272	128
35°	48	50	49	48	43	33
45°	7	8	8	8	8	6
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°	1231.0	1231.0	1231.0	1231.0	1231.0
2.5°	1218.0	1230.4	1238.6	1231.7	1224.2
5°	1202.1	1211.8	1222.8	1214.5	1209.7
7.5°	1145.7	1160.1	1168.4	1164.3	1156.7
10°	1057.5	1068.6	1080.3	1076.1	1069.2
12.5°	941.2	956.3	967.3	957.7	959.1
15°	801.4	819.3	830.3	817.9	815.9
17.5°	653.4	667.2	674.7	667.2	661.7
20°	514.3	522.6	525.3	521.9	517.1
22.5°	380.1	389.0	397.3	389.0	382.8
25°	270.6	279.5	289.2	278.2	272.0
27.5°	182.5	188.0	196.2	185.9	176.9
30°	116.4	122.6	128.8	121.2	111.5
32.5°	73.7	77.8	78.5	77.1	68.9
35°	47.5	49.6	48.9	48.2	43.4
37.5°	30.3	30.3	31.0	30.3	27.5
40°	18.6	20.0	19.3	18.6	17.2
42.5°	11.0	12.4	11.7	11.7	11.0
45°	6.9	8.3	7.6	7.6	7.6
47.5°	4.8	5.5	4.8	4.8	5.5
50°	2.8	3.4	3.4	3.4	3.4
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)