

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: P225206

Luminaire Tested: **LD2B05D010 EU2B05FL408027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225206
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 EU2B05FL408027 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: 713.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

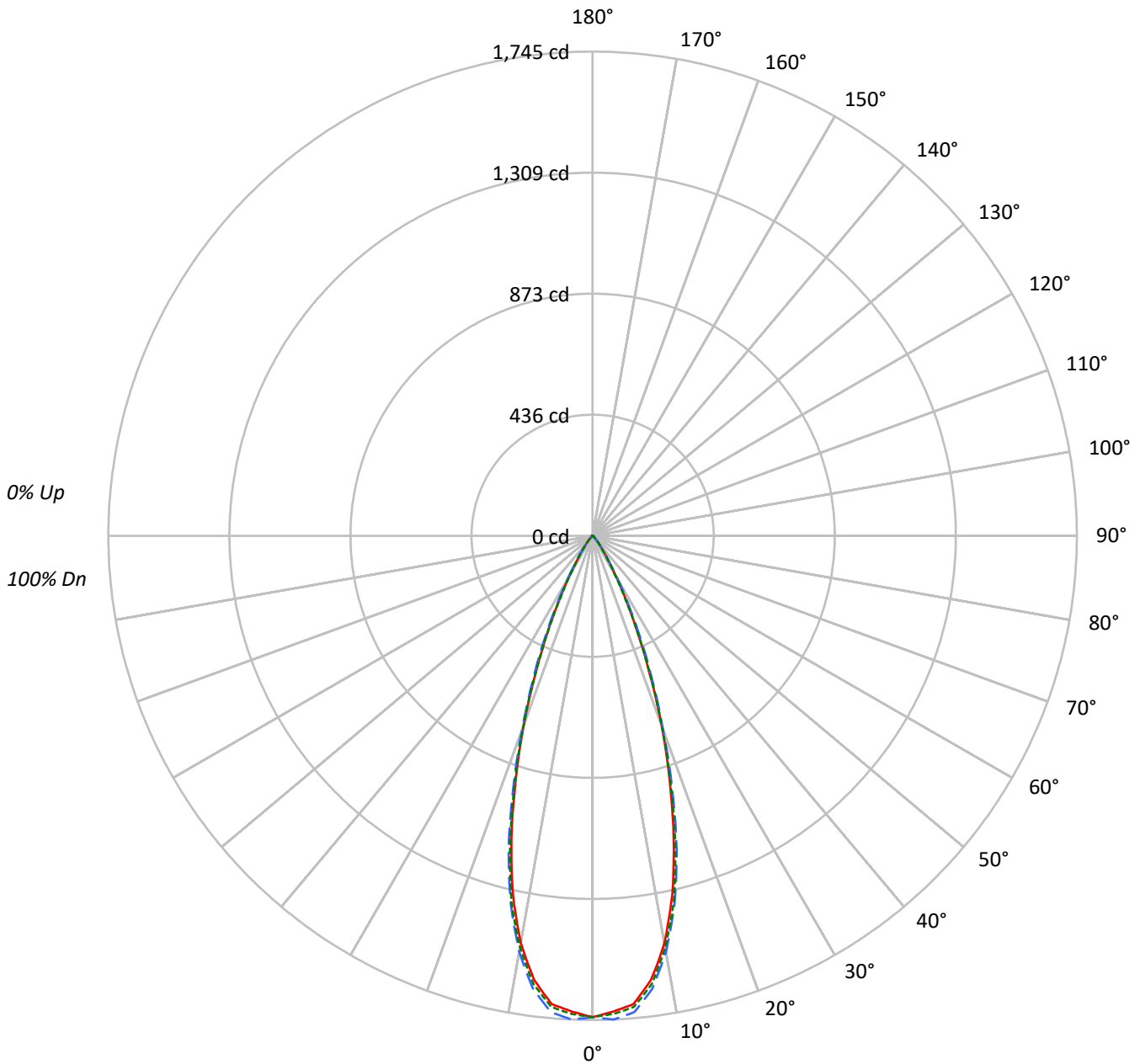
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	671929	671929	671929
5°	658632	669946	662792
10°	586128	598714	592617
15°	452861	469182	461001
20°	298725	305114	300333
25°	162963	174161	163775
30°	73352	81135	70311
35°	31634	32580	28892
40°	13248	13754	12287
45°	5314	5861	5861
50°	2350	2953	2953
55°	1283	1283	1958
60°	775	775	775
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°	156.8	22.0
10°-20°	312.1	43.8
20°-30°	184.4	25.9
30°-40°	48.0	6.7
40°-50°	9.5	1.3
50°-60°	2.1	0.3
60°-70°	0.2	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°	653.3	91.6
0°-40°	701.3	98.4
0°-60°	712.8	100.0
0°-90°	713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1694	1708	1723	1711	1705	155
15°	1129	1154	1170	1153	1150	306
25°	381	394	408	392	383	180
35°	67	70	69	68	61	47
45°	10	12	11	11	11	9
55°	2	2	2	2	3	2
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°	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	1716.2	1733.7	1745.3	1735.6	1725.0
5°	1693.9	1707.5	1723.0	1711.4	1704.6
7.5°	1614.4	1634.7	1646.4	1640.6	1629.9
10°	1490.2	1505.7	1522.2	1516.4	1506.7
12.5°	1326.2	1347.6	1363.1	1349.5	1351.4
15°	1129.3	1154.5	1170.0	1152.6	1149.6
17.5°	920.7	940.1	950.8	940.1	932.3
20°	724.7	736.4	740.2	735.4	728.6
22.5°	535.5	548.1	559.8	548.1	539.4
25°	381.3	393.9	407.5	391.9	383.2
27.5°	257.1	264.9	276.5	261.9	249.3
30°	164.0	172.7	181.4	170.7	157.2
32.5°	103.8	109.6	110.6	108.7	97.0
35°	66.9	69.9	68.9	67.9	61.1
37.5°	42.7	42.7	43.7	42.7	38.8
40°	26.2	28.1	27.2	26.2	24.3
42.5°	15.5	17.5	16.5	16.5	15.5
45°	9.7	11.6	10.7	10.7	10.7
47.5°	6.8	7.8	6.8	6.8	7.8
50°	3.9	4.9	4.9	4.9	4.9
52.5°	2.9	2.9	2.9	2.9	3.9
55°	1.9	1.9	1.9	1.9	2.9
57.5°	1.9	1.9	1.0	1.0	1.9
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)