

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: P225207

Luminaire Tested: **LD2B05D010 EU2B05FL408030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225207
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 EU2B05FL408030 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: 727.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

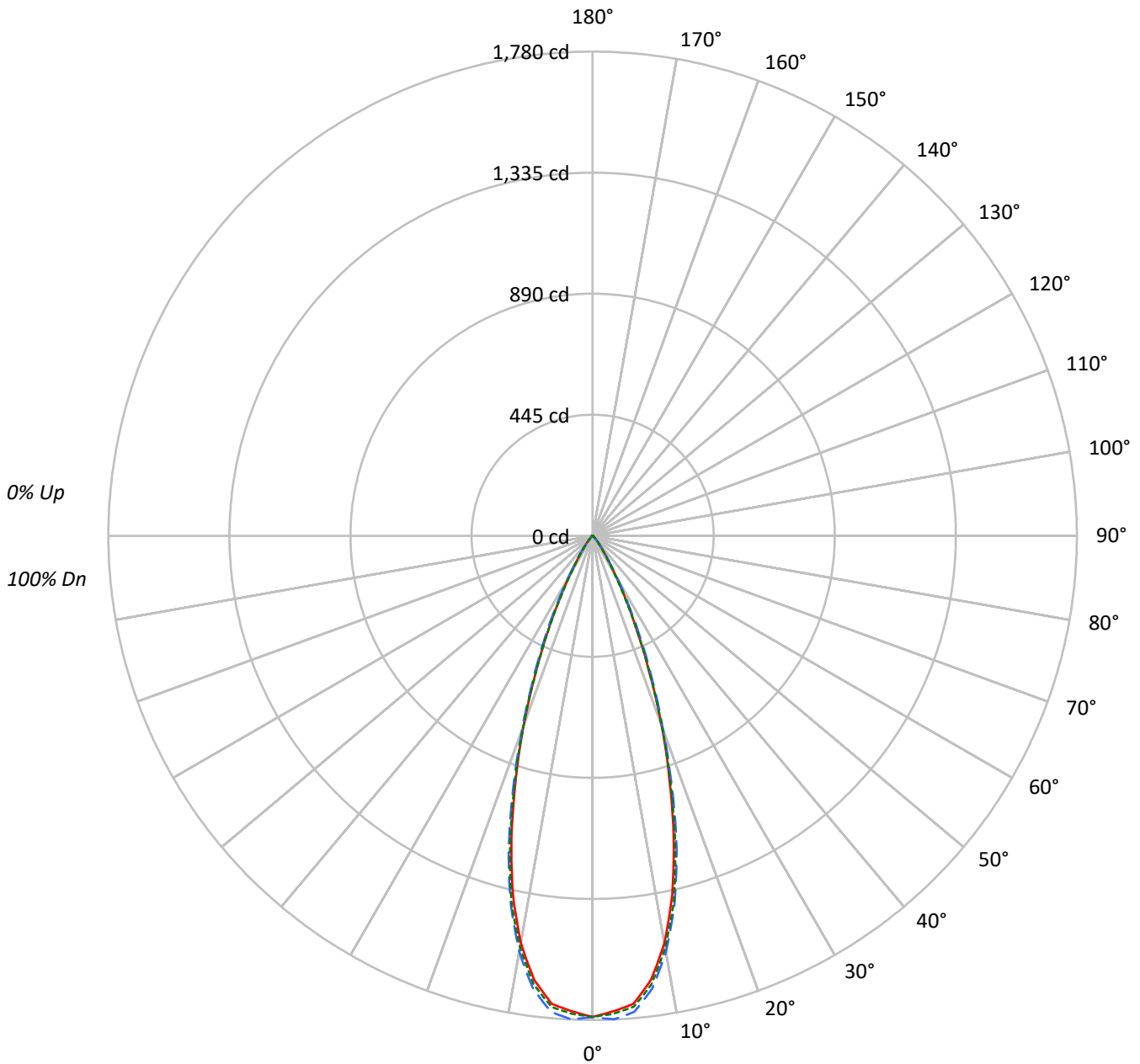
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	685099	685099	685099
5°	671580	683089	675818
10°	597613	610474	604260
15°	461723	478405	470064
20°	304578	311132	306227
25°	166169	177580	166981
30°	74783	82745	71697
35°	32296	33195	29459
40°	13501	14006	12489
45°	5423	5971	5971
50°	2410	2953	2953
55°	1351	1351	2026
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°	159.9	22.0
10°-20°	318.2	43.8
20°-30°	188.0	25.9
30°-40°	48.9	6.7
40°-50°	9.7	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°	666.1	91.6
0°-40°	715.0	98.4
0°-60°	726.8	100.0
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1727	1741	1757	1745	1738	158
15°	1151	1177	1193	1175	1172	312
25°	389	402	416	400	391	183
35°	68	71	70	69	62	48
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°	1768.7	1768.7	1768.7	1768.7	1768.7
2.5°	1749.9	1767.7	1779.6	1769.7	1758.8
5°	1727.2	1741.0	1756.8	1745.0	1738.1
7.5°	1646.1	1666.8	1678.7	1672.8	1661.9
10°	1519.4	1535.3	1552.1	1546.1	1536.3
12.5°	1352.3	1374.0	1389.8	1376.0	1378.0
15°	1151.4	1177.2	1193.0	1175.2	1172.2
17.5°	938.8	958.5	969.4	958.5	950.6
20°	738.9	750.8	754.8	749.8	742.9
22.5°	546.0	558.9	570.8	558.9	550.0
25°	388.8	401.6	415.5	399.6	390.7
27.5°	262.1	270.1	281.9	267.1	254.2
30°	167.2	176.1	185.0	174.1	160.3
32.5°	105.8	111.8	112.8	110.8	98.9
35°	68.3	71.2	70.2	69.2	62.3
37.5°	43.5	43.5	44.5	43.5	39.6
40°	26.7	28.7	27.7	26.7	24.7
42.5°	15.8	17.8	16.8	16.8	15.8
45°	9.9	11.9	10.9	10.9	10.9
47.5°	6.9	7.9	6.9	6.9	7.9
50°	4.0	4.9	4.9	4.9	4.9
52.5°	3.0	3.0	3.0	3.0	4.0
55°	2.0	2.0	2.0	2.0	3.0
57.5°	2.0	2.0	1.0	1.0	2.0
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)