

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: P225169

Luminaire Tested: **LD2B05D010 EU2B05FL409030 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225169
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 EU2B05FL409030 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: 586.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

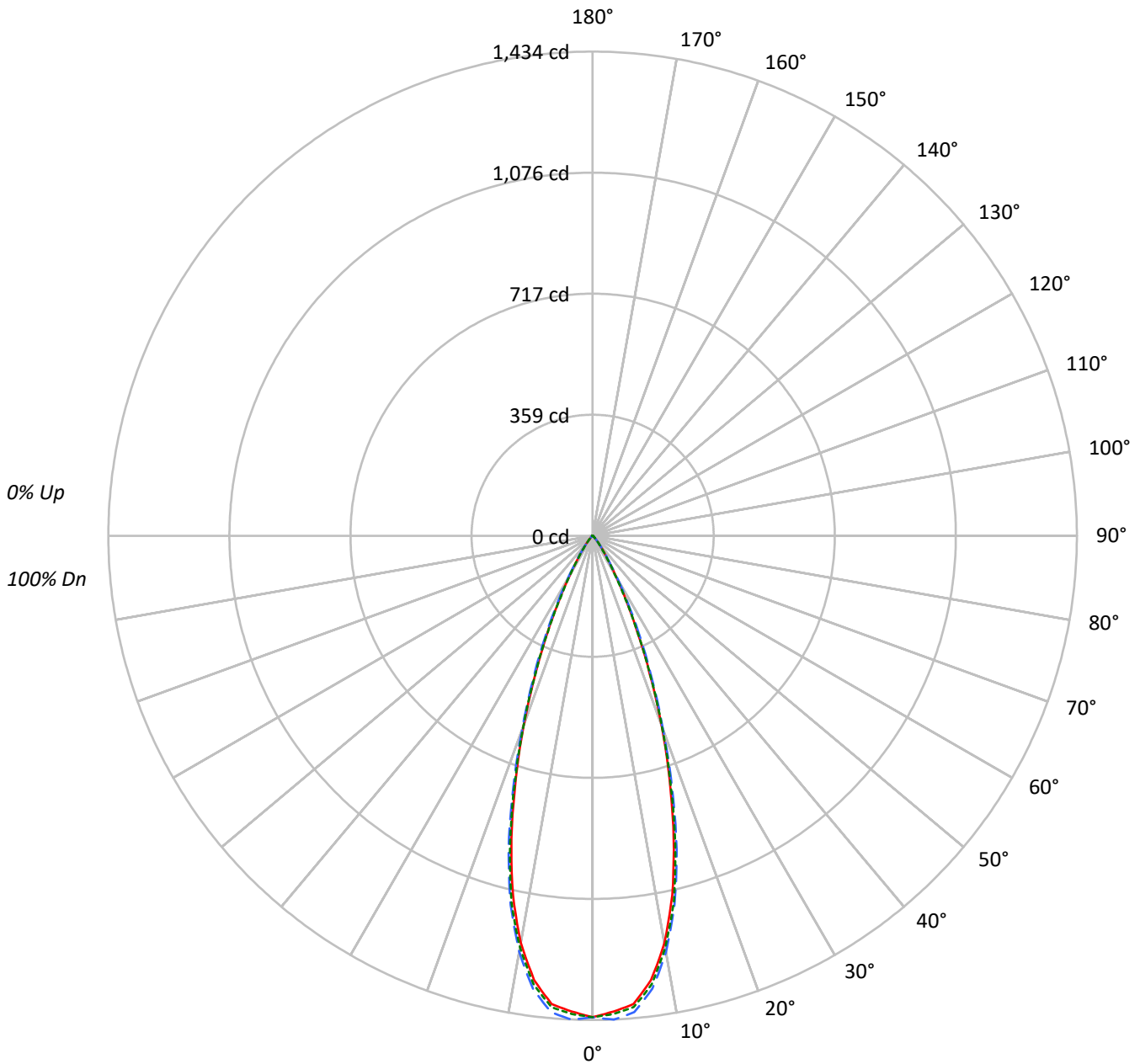
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	552239	552239	552239
5°	541323	550616	544745
10°	481701	492084	487050
15°	372177	385611	378914
20°	245509	250786	246828
25°	133944	143133	134628
30°	60292	66688	57787
35°	26007	26764	23738
40°	10871	11276	10062
45°	4382	4821	4821
50°	1928	2410	2410
55°	1081	1081	1621
60°	620	620	620
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°	128.9	22.0
10°-20°	256.5	43.8
20°-30°	151.5	25.9
30°-40°	39.4	6.7
40°-50°	7.8	1.3
50°-60°	1.7	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°	536.9	91.6
0°-40°	576.3	98.3
0°-60°	585.9	100.0
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1392	1403	1416	1406	1401	127
15°	928	949	962	947	945	252
25°	313	324	335	322	315	148
35°	55	57	57	56	50	38
45°	8	10	9	9	9	7
55°	2	2	2	2	2	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°	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1410.5	1424.9	1434.4	1426.5	1417.7
5°	1392.2	1403.4	1416.1	1406.5	1401.0
7.5°	1326.8	1343.6	1353.1	1348.3	1339.6
10°	1224.7	1237.5	1251.1	1246.3	1238.3
12.5°	1090.0	1107.5	1120.3	1109.1	1110.7
15°	928.1	948.9	961.6	947.3	944.9
17.5°	756.7	772.6	781.4	772.6	766.3
20°	595.6	605.2	608.4	604.4	598.8
22.5°	440.1	450.5	460.1	450.5	443.3
25°	313.4	323.7	334.9	322.1	315.0
27.5°	211.3	217.7	227.2	215.3	204.9
30°	134.8	141.9	149.1	140.3	129.2
32.5°	85.3	90.1	90.9	89.3	79.7
35°	55.0	57.4	56.6	55.8	50.2
37.5°	35.1	35.1	35.9	35.1	31.9
40°	21.5	23.1	22.3	21.5	19.9
42.5°	12.8	14.4	13.6	13.6	12.8
45°	8.0	9.6	8.8	8.8	8.8
47.5°	5.6	6.4	5.6	5.6	6.4
50°	3.2	4.0	4.0	4.0	4.0
52.5°	2.4	2.4	2.4	2.4	3.2
55°	1.6	1.6	1.6	1.6	2.4
57.5°	1.6	1.6	0.8	0.8	1.6
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
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)