

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: P#

Luminaire Tested: **LD2B15D010 EU2B15WFL559040 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15WFL559040 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962.6 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

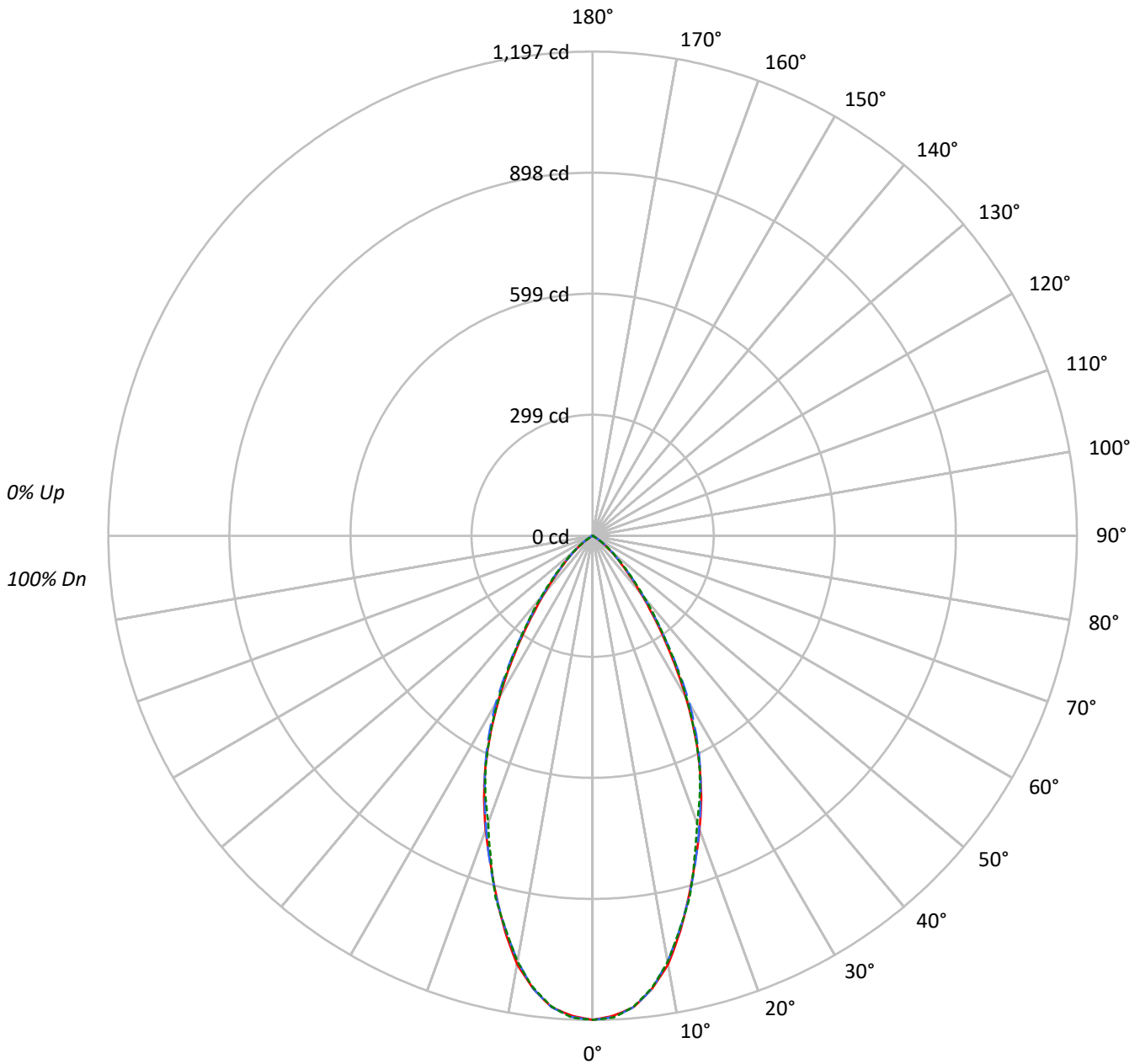
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	463576	463576	463576
5°	454693	454693	454109
10°	422939	419949	420539
15°	369050	369691	371496
20°	318634	317398	311132
25°	267417	268742	266776
30°	205833	213973	207846
35°	143608	149377	147959
40°	93696	97539	100623
45°	57408	60750	63215
50°	33866	36578	38446
55°	14384	18436	17423
60°	2324	4726	3564
65°	1375	1375	1375
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°	108.4	11.3
10°-20°	256.5	26.6
20°-30°	284.1	29.5
30°-40°	197.7	20.5
40°-50°	89.0	9.2
50°-60°	25.1	2.6
60°-70°	1.7	0.2
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°	649.0	67.4
0°-40°	846.7	88.0
0°-60°	960.9	99.8
0°-90°	962.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1169	1174	1169	1165	1168	108
15°	920	925	922	920	926	257
25°	626	630	629	621	624	284
35°	304	313	316	316	313	192
45°	105	108	111	114	115	85
55°	21	24	27	27	26	22
65°	2	2	2	2	2	1
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°	1196.8	1196.8	1196.8	1196.8	1196.8
2.5°	1187.6	1193.7	1190.7	1190.7	1192.2
5°	1169.4	1174.0	1169.4	1164.9	1167.9
7.5°	1128.4	1133.0	1128.4	1125.4	1126.9
10°	1075.3	1072.2	1067.7	1064.6	1069.2
12.5°	1000.8	999.3	996.3	994.8	994.8
15°	920.3	924.9	921.9	920.3	926.4
17.5°	842.9	847.4	844.4	839.9	836.8
20°	773.0	774.5	770.0	762.4	754.8
22.5°	701.6	703.2	695.6	692.5	692.5
25°	625.7	630.3	628.8	621.2	624.2
27.5°	543.7	551.3	554.3	545.2	545.2
30°	460.2	466.2	478.4	466.2	464.7
32.5°	378.2	387.3	393.3	391.8	387.3
35°	303.7	312.9	315.9	315.9	312.9
37.5°	236.9	246.0	249.1	252.1	252.1
40°	185.3	189.8	192.9	197.4	199.0
42.5°	139.7	144.3	148.8	151.9	150.4
45°	104.8	107.8	110.9	113.9	115.4
47.5°	79.0	79.0	82.0	85.0	85.0
50°	56.2	59.2	60.7	62.3	63.8
52.5°	38.0	39.5	42.5	44.0	42.5
55°	21.3	24.3	27.3	27.3	25.8
57.5°	9.1	13.7	15.2	15.2	12.1
60°	3.0	6.1	6.1	7.6	4.6
62.5°	1.5	3.0	3.0	3.0	1.5
65°	1.5	1.5	1.5	1.5	1.5
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)