

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: **LD2B05D010 EU2B05WFL559040 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: LD2B05D010 EU2B05WFL559040 2LBDSQLC*MB
Description: 500 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: 536.0 lumens
Efficiency: N/A
Efficacy: 73.4 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

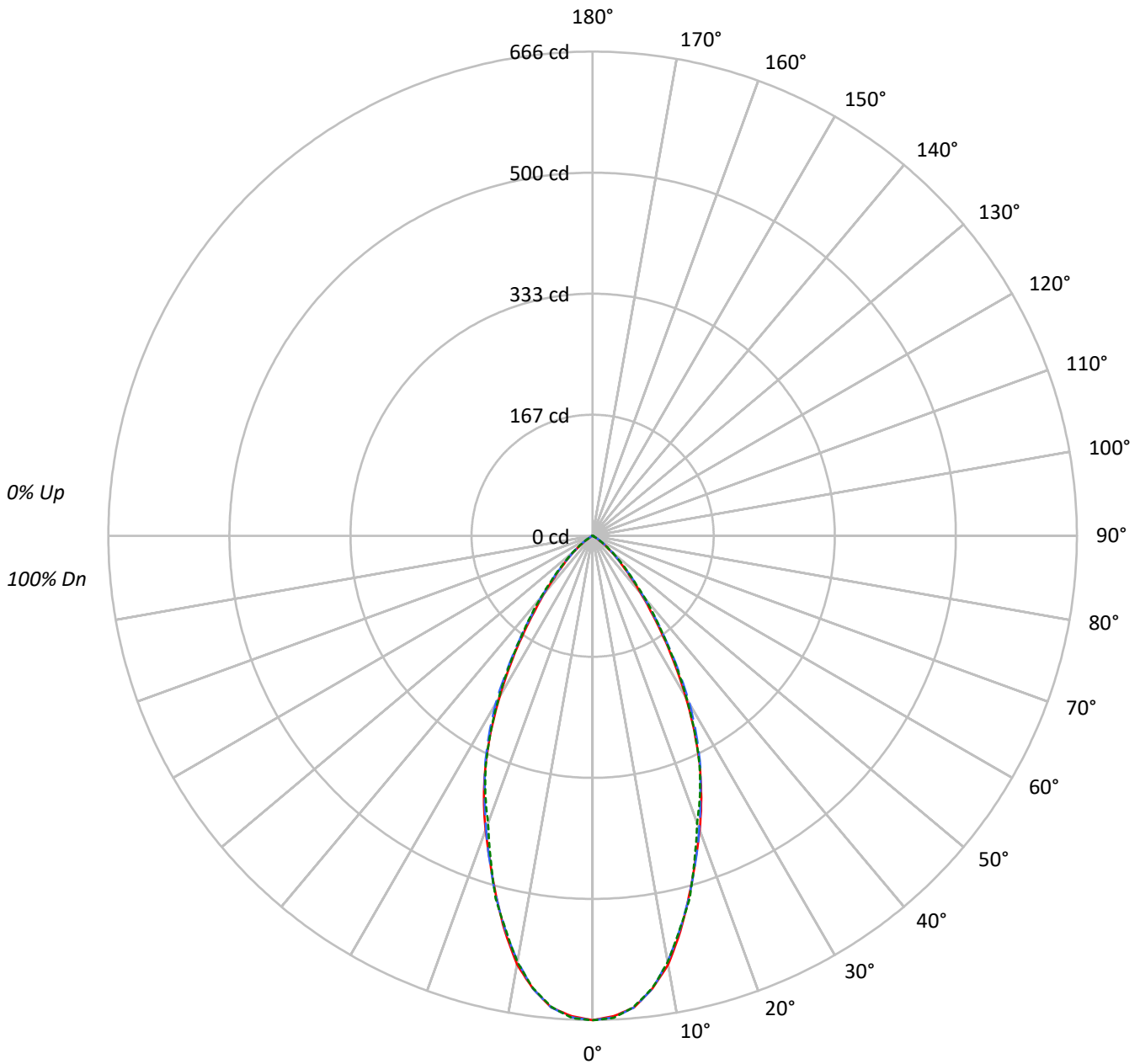
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	258127	258127	258127
5°	253203	253203	252853
10°	235482	233830	234144
15°	205518	205838	206881
20°	177413	176753	173250
25°	148902	149629	148560
30°	114590	119152	115753
35°	79961	83176	82373
40°	52182	54306	56025
45°	31991	33799	35223
50°	18861	20368	21392
55°	7969	10265	9725
60°	1317	2634	1937
65°	733	733	733
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°	60.4	11.3
10°-20°	142.8	26.6
20°-30°	158.2	29.5
30°-40°	110.1	20.5
40°-50°	49.6	9.2
50°-60°	14.0	2.6
60°-70°	1.0	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°	361.4	67.4
0°-40°	471.5	88.0
0°-60°	535.0	99.8
0°-90°	536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	651	654	651	649	650	60
15°	512	515	513	512	516	143
25°	348	351	350	346	348	158
35°	169	174	176	176	174	107
45°	58	60	62	63	64	47
55°	12	14	15	15	14	12
65°	1	1	1	1	1	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°	666.4	666.4	666.4	666.4	666.4
2.5°	661.3	664.7	663.0	663.0	663.8
5°	651.2	653.7	651.2	648.6	650.3
7.5°	628.3	630.9	628.3	626.6	627.5
10°	598.7	597.0	594.5	592.8	595.3
12.5°	557.3	556.4	554.8	553.9	553.9
15°	512.5	515.0	513.3	512.5	515.9
17.5°	469.3	471.9	470.2	467.7	466.0
20°	430.4	431.3	428.8	424.5	420.3
22.5°	390.7	391.5	387.3	385.6	385.6
25°	348.4	351.0	350.1	345.9	347.6
27.5°	302.7	307.0	308.7	303.6	303.6
30°	256.2	259.6	266.4	259.6	258.8
32.5°	210.6	215.6	219.0	218.2	215.6
35°	169.1	174.2	175.9	175.9	174.2
37.5°	131.9	137.0	138.7	140.4	140.4
40°	103.2	105.7	107.4	109.9	110.8
42.5°	77.8	80.3	82.9	84.6	83.7
45°	58.4	60.0	61.7	63.4	64.3
47.5°	44.0	44.0	45.7	47.4	47.4
50°	31.3	33.0	33.8	34.7	35.5
52.5°	21.1	22.0	23.7	24.5	23.7
55°	11.8	13.5	15.2	15.2	14.4
57.5°	5.1	7.6	8.5	8.5	6.8
60°	1.7	3.4	3.4	4.2	2.5
62.5°	0.8	1.7	1.7	1.7	0.8
65°	0.8	0.8	0.8	0.8	0.8
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)