

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 EU2B05WFL558027 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 EU2B05WFL558027 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: 615.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

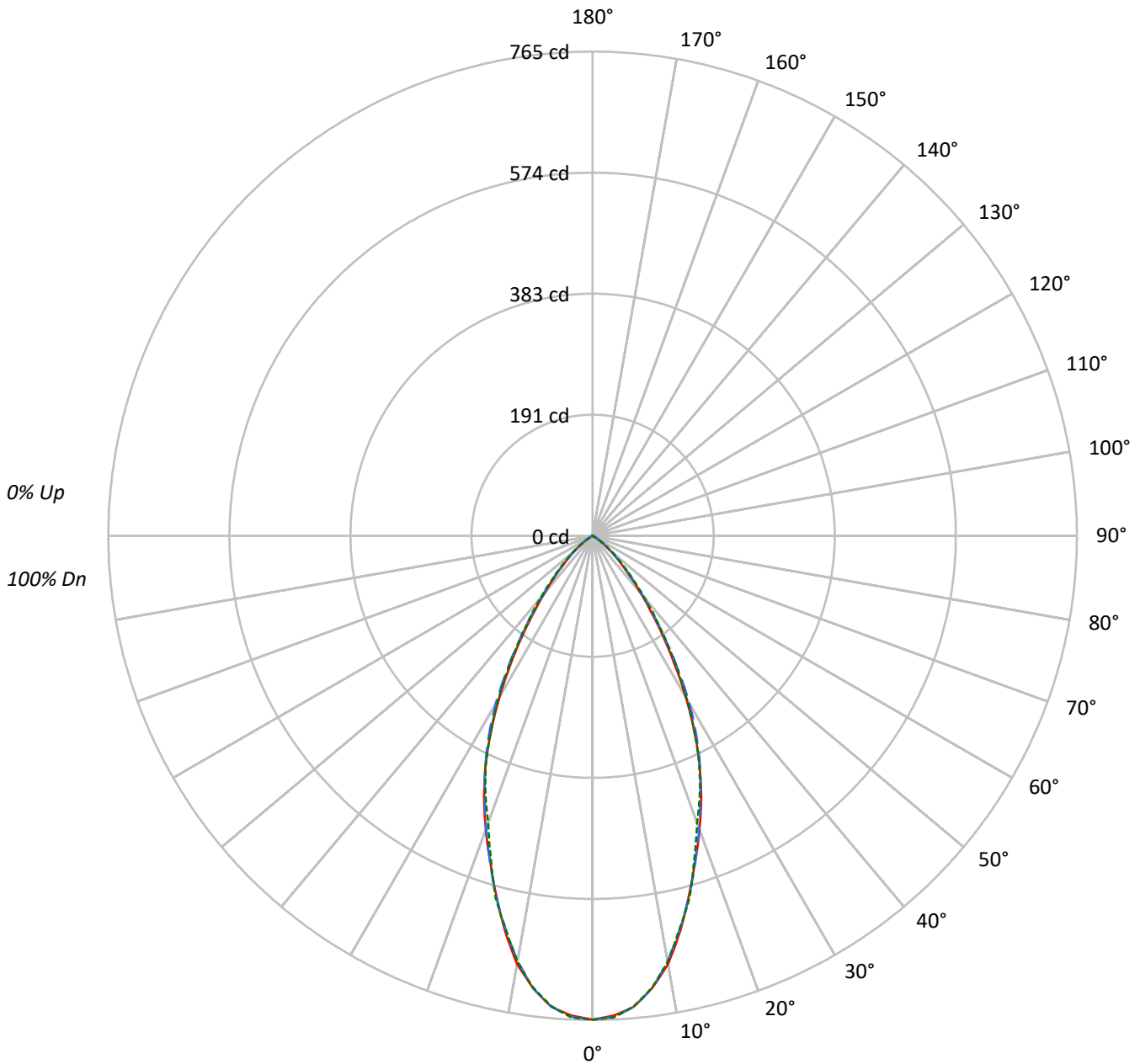
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	296165	296165	296165
5°	290492	290492	290142
10°	270212	268285	268678
15°	235794	236195	237358
20°	203588	202764	198765
25°	170870	171682	170443
30°	131497	136685	132794
35°	91783	95424	94525
40°	59868	62295	64267
45°	36702	38784	40372
50°	21633	23381	24586
55°	9184	11818	11143
60°	1472	3021	2247
65°	917	917	917
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°	69.3	11.3
10°-20°	163.9	26.6
20°-30°	181.5	29.5
30°-40°	126.3	20.5
40°-50°	56.9	9.2
50°-60°	16.0	2.6
60°-70°	1.1	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°	414.6	67.4
0°-40°	541.0	88.0
0°-60°	613.9	99.8
0°-90°	615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	747	750	747	744	746	69
15°	588	591	589	588	592	164
25°	400	403	402	397	399	181
35°	194	200	202	202	200	122
45°	67	69	71	73	74	54
55°	14	16	18	18	16	14
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°	764.6	764.6	764.6	764.6	764.6
2.5°	758.8	762.7	760.7	760.7	761.7
5°	747.1	750.0	747.1	744.2	746.2
7.5°	720.9	723.8	720.9	719.0	720.0
10°	687.0	685.0	682.1	680.2	683.1
12.5°	639.4	638.5	636.5	635.5	635.5
15°	588.0	590.9	589.0	588.0	591.9
17.5°	538.5	541.4	539.5	536.6	534.6
20°	493.9	494.9	491.9	487.1	482.2
22.5°	448.3	449.3	444.4	442.5	442.5
25°	399.8	402.7	401.7	396.9	398.8
27.5°	347.4	352.2	354.2	348.3	348.3
30°	294.0	297.9	305.6	297.9	296.9
32.5°	241.6	247.4	251.3	250.3	247.4
35°	194.1	199.9	201.8	201.8	199.9
37.5°	151.4	157.2	159.1	161.1	161.1
40°	118.4	121.3	123.2	126.1	127.1
42.5°	89.3	92.2	95.1	97.0	96.1
45°	67.0	68.9	70.8	72.8	73.7
47.5°	50.5	50.5	52.4	54.3	54.3
50°	35.9	37.8	38.8	39.8	40.8
52.5°	24.3	25.2	27.2	28.1	27.2
55°	13.6	15.5	17.5	17.5	16.5
57.5°	5.8	8.7	9.7	9.7	7.8
60°	1.9	3.9	3.9	4.9	2.9
62.5°	1.0	1.9	1.9	1.9	1.0
65°	1.0	1.0	1.0	1.0	1.0
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)