

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 EU2B05WFL559730 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 EU2B05WFL559730 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: 464.0 lumens
Efficiency: N/A
Efficacy: 63.6 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

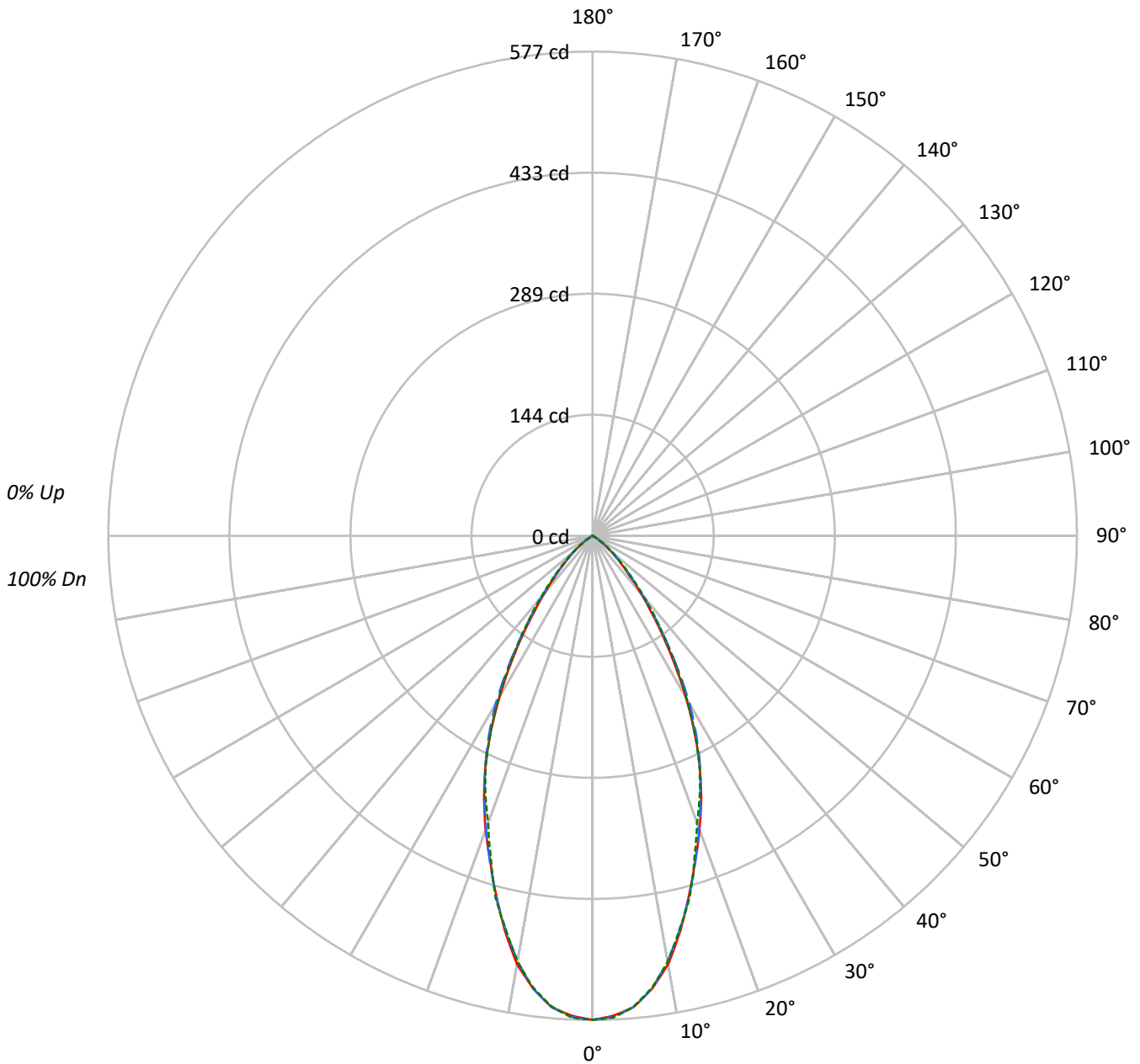
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	223460	223460	223460
5°	219181	219181	218909
10°	203858	202403	202718
15°	177888	178209	179091
20°	153588	153010	149960
25°	128901	129542	128601
30°	99204	103140	100188
35°	69227	72017	71308
40°	45154	47025	48491
45°	27663	29252	30457
50°	16331	17656	18500
55°	6888	8914	8374
60°	1162	2247	1704
65°	642	642	642
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°	52.3	11.3
10°-20°	123.6	26.6
20°-30°	137.0	29.5
30°-40°	95.3	20.5
40°-50°	42.9	9.2
50°-60°	12.1	2.6
60°-70°	0.8	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°	312.8	67.4
0°-40°	408.1	88.0
0°-60°	463.2	99.8
0°-90°	464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	564	566	564	562	563	52
15°	444	446	444	444	447	124
25°	302	304	303	299	301	137
35°	146	151	152	152	151	92
45°	50	52	53	55	56	41
55°	10	12	13	13	12	10
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.9	576.9	576.9	576.9	576.9
2.5°	572.5	575.4	573.9	573.9	574.7
5°	563.7	565.9	563.7	561.5	563.0
7.5°	543.9	546.1	543.9	542.5	543.2
10°	518.3	516.8	514.6	513.2	515.4
12.5°	482.4	481.7	480.2	479.5	479.5
15°	443.6	445.8	444.4	443.6	446.6
17.5°	406.3	408.5	407.0	404.8	403.4
20°	372.6	373.4	371.2	367.5	363.8
22.5°	338.2	338.9	335.3	333.8	333.8
25°	301.6	303.8	303.1	299.4	300.9
27.5°	262.1	265.7	267.2	262.8	262.8
30°	221.8	224.7	230.6	224.7	224.0
32.5°	182.3	186.7	189.6	188.9	186.7
35°	146.4	150.8	152.3	152.3	150.8
37.5°	114.2	118.6	120.1	121.5	121.5
40°	89.3	91.5	93.0	95.2	95.9
42.5°	67.4	69.5	71.7	73.2	72.5
45°	50.5	52.0	53.4	54.9	55.6
47.5°	38.1	38.1	39.5	41.0	41.0
50°	27.1	28.6	29.3	30.0	30.7
52.5°	18.3	19.0	20.5	21.2	20.5
55°	10.2	11.7	13.2	13.2	12.4
57.5°	4.4	6.6	7.3	7.3	5.9
60°	1.5	2.9	2.9	3.7	2.2
62.5°	0.7	1.5	1.5	1.5	0.7
65°	0.7	0.7	0.7	0.7	0.7
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)