

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 EU2B05WFL559030 2LBDSQC*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 (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559030 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

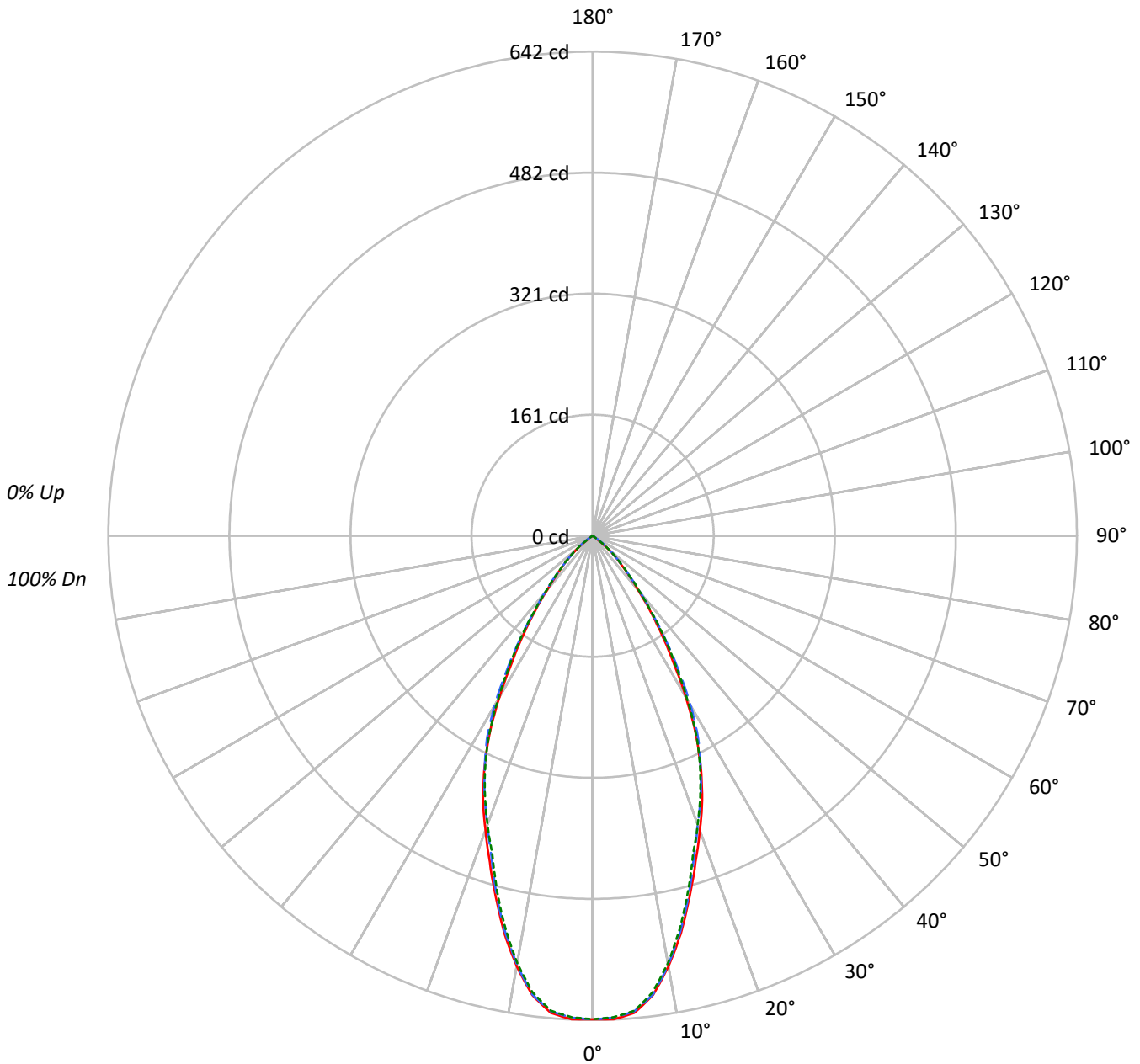
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	248328	248328	248328
5°	246982	246127	245854
10°	227969	227104	226238
15°	198901	197457	195974
20°	171230	167932	167932
25°	144970	144671	144030
30°	110431	116335	112399
35°	75185	79677	79015
40°	47429	50008	49654
45°	29307	29690	30128
50°	15005	16752	16331
55°	1958	5943	2499
60°	542	542	542
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°	58.6	11.6
10°-20°	137.1	27.1
20°-30°	153.8	30.4
30°-40°	104.5	20.7
40°-50°	43.7	8.6
50°-60°	8.2	1.6
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°	349.6	69.1
0°-40°	454.0	89.7
0°-60°	505.9	100.0
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	635	634	633	632	632	59
15°	496	495	492	488	489	138
25°	339	342	338	338	337	153
35°	159	164	168	165	167	101
45°	54	53	54	55	55	42
55°	3	7	9	7	4	6
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°	641.1	641.1	641.1	641.1	641.1
2.5°	641.8	640.4	639.6	638.9	638.9
5°	635.2	634.5	633.0	631.6	632.3
7.5°	614.0	613.3	613.3	610.3	610.3
10°	579.6	579.6	577.4	577.4	575.2
12.5°	540.0	537.1	537.1	534.9	533.4
15°	496.0	494.6	492.4	488.0	488.7
17.5°	453.5	450.6	446.2	444.0	442.5
20°	415.4	414.7	407.4	405.9	407.4
22.5°	379.5	380.3	374.4	372.9	372.9
25°	339.2	342.2	338.5	337.8	337.0
27.5°	296.0	301.1	303.3	298.2	297.5
30°	246.9	255.7	260.1	255.0	251.3
32.5°	199.3	208.1	212.5	208.8	206.6
35°	159.0	164.1	168.5	164.9	167.1
37.5°	124.6	127.5	129.0	129.0	129.0
40°	93.8	96.7	98.9	99.6	98.2
42.5°	71.1	72.5	74.0	74.7	74.0
45°	53.5	52.8	54.2	55.0	55.0
47.5°	38.8	38.8	39.6	40.3	40.3
50°	24.9	26.4	27.8	27.1	27.1
52.5°	11.0	15.4	18.3	15.4	12.5
55°	2.9	6.6	8.8	6.6	3.7
57.5°	0.7	2.2	2.9	2.2	1.5
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
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)