

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 EU2B05WFL559035 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 EU2B05WFL559035 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

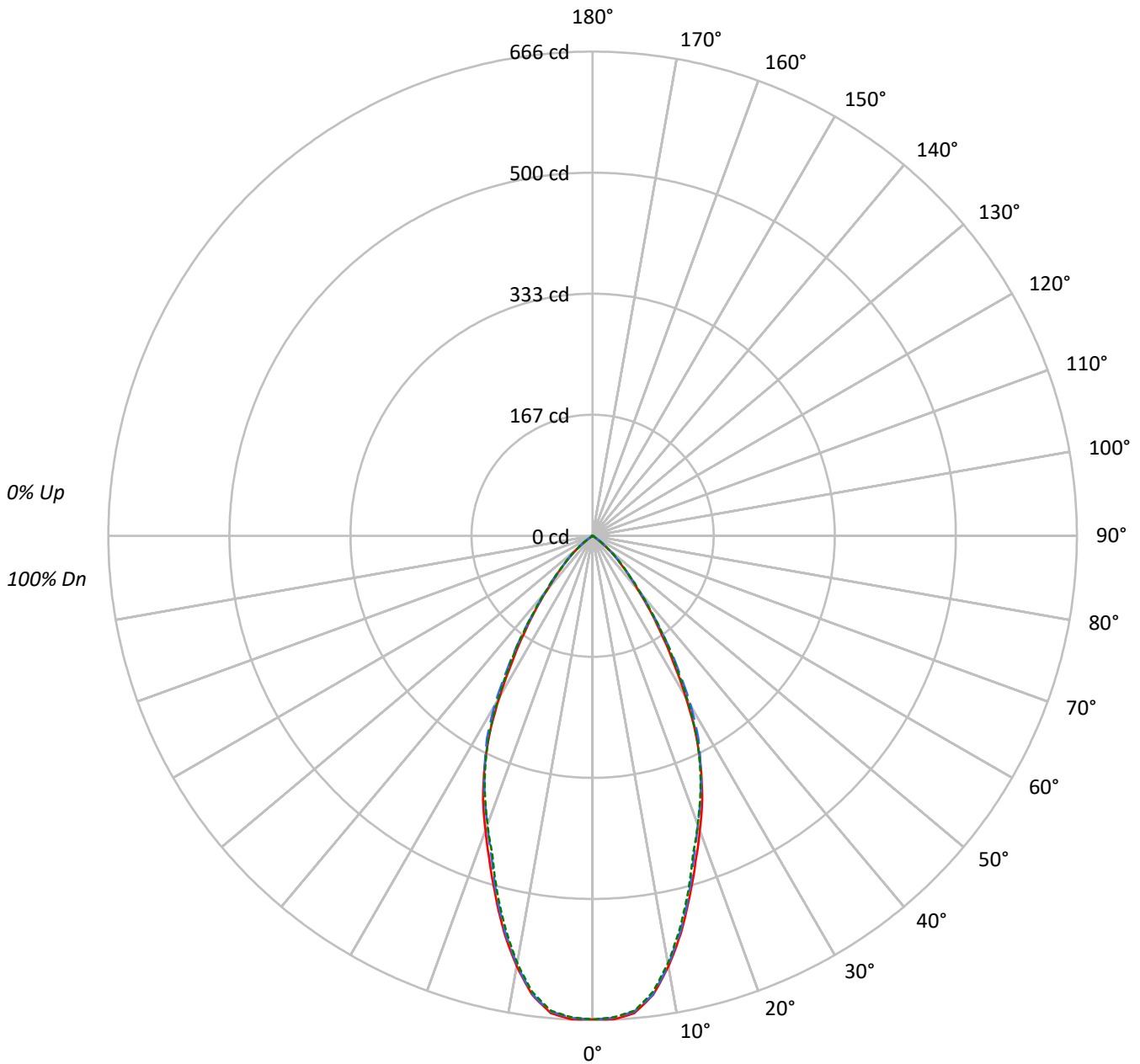
Lumens per Lamp: N/A
Luminaire Lumens: 525.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	257663	257663	257663
5°	256275	255381	255070
10°	236504	235600	234734
15°	206400	204876	203352
20°	177660	174239	174239
25°	150441	150099	149458
30°	114590	120718	116603
35°	78022	82656	81947
40°	49199	51879	51525
45°	30402	30841	31224
50°	15547	17415	16933
55°	2026	6145	2566
60°	620	620	620
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°	60.8	11.6
10°-20°	142.2	27.1
20°-30°	159.6	30.4
30°-40°	108.4	20.6
40°-50°	45.3	8.6
50°-60°	8.5	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°	362.7	69.1
0°-40°	471.1	89.7
0°-60°	524.9	100.0
0°-90°	525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	659	658	657	655	656	61
15°	515	513	511	506	507	144
25°	352	355	351	350	350	159
35°	165	170	175	171	173	105
45°	56	55	56	57	57	44
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°	665.2	665.2	665.2	665.2	665.2
2.5°	665.9	664.4	663.7	662.9	662.9
5°	659.1	658.3	656.8	655.3	656.0
7.5°	637.0	636.3	636.3	633.2	633.2
10°	601.3	601.3	599.0	599.0	596.8
12.5°	560.3	557.2	557.2	554.9	553.4
15°	514.7	513.1	510.9	506.3	507.1
17.5°	470.6	467.5	463.0	460.7	459.2
20°	431.0	430.3	422.7	421.1	422.7
22.5°	393.8	394.5	388.5	386.9	386.9
25°	352.0	355.0	351.2	350.5	349.7
27.5°	307.1	312.4	314.7	309.4	308.6
30°	256.2	265.3	269.9	264.5	260.7
32.5°	206.8	215.9	220.5	216.7	214.4
35°	165.0	170.3	174.8	171.0	173.3
37.5°	129.2	132.3	133.8	133.8	133.8
40°	97.3	100.3	102.6	103.4	101.9
42.5°	73.7	75.3	76.8	77.5	76.8
45°	55.5	54.7	56.3	57.0	57.0
47.5°	40.3	40.3	41.1	41.8	41.8
50°	25.8	27.4	28.9	28.1	28.1
52.5°	11.4	16.0	19.0	16.0	12.9
55°	3.0	6.8	9.1	6.8	3.8
57.5°	0.8	2.3	3.0	2.3	1.5
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
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)