

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 EU2B05WFL559050 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 EU2B05WFL559050 2LBDSQC*MB
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

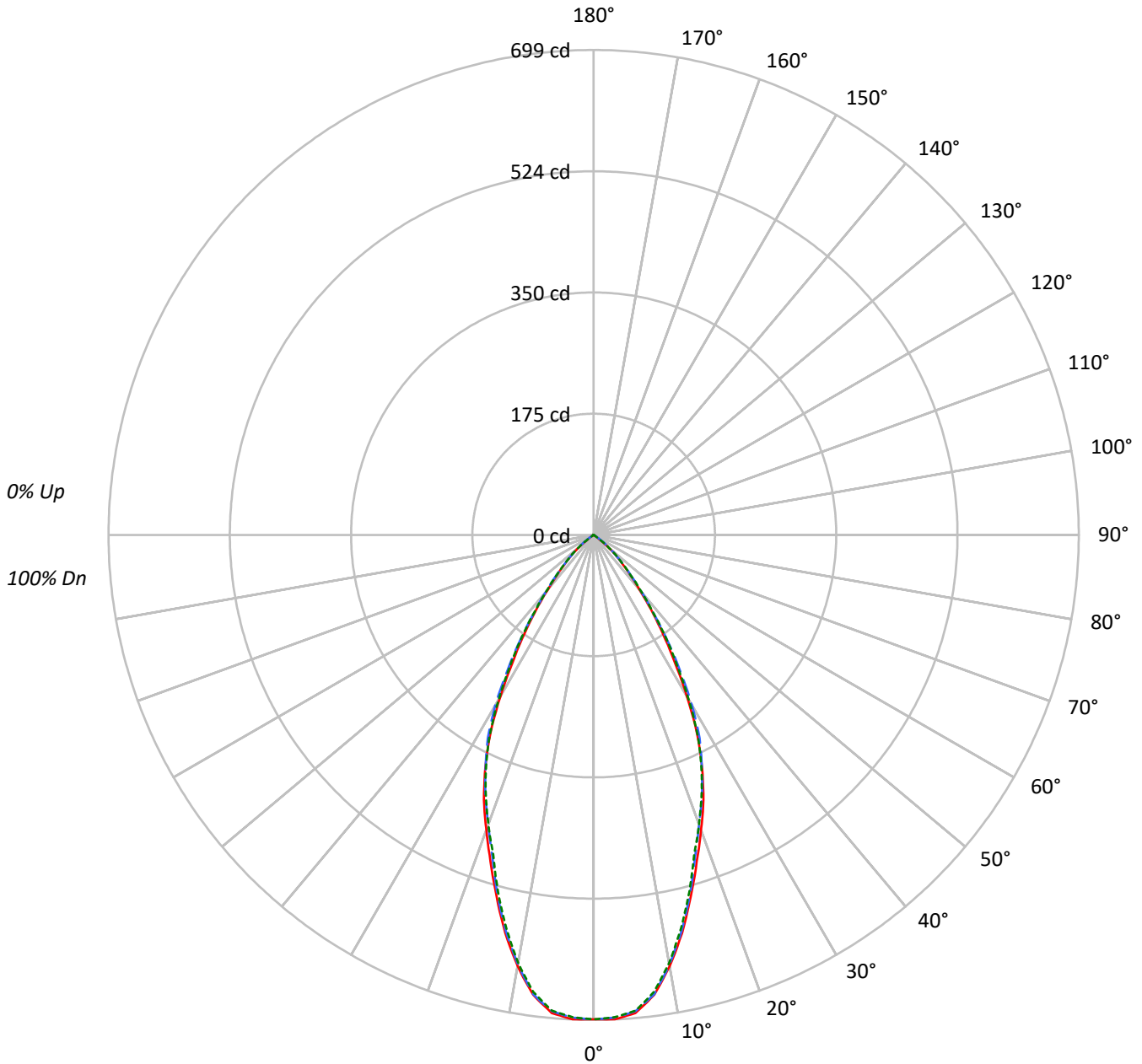
Lumens per Lamp: N/A
Luminaire Lumens: 551.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	270406	270406	270406
5°	268951	268017	267706
10°	248225	247281	246337
15°	216586	215022	213418
20°	186482	182854	182854
25°	157878	157536	156852
30°	120271	126666	122417
35°	81852	86770	86014
40°	51626	54458	54053
45°	31881	32320	32758
50°	16331	18259	17777
55°	2161	6483	2701
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°	63.9	11.6
10°-20°	149.3	27.1
20°-30°	167.5	30.4
30°-40°	113.8	20.6
40°-50°	47.6	8.6
50°-60°	8.9	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°	380.6	69.1
0°-40°	494.4	89.7
0°-60°	550.8	100.0
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	692	691	689	688	688	64
15°	540	538	536	531	532	151
25°	369	373	369	368	367	167
35°	173	179	184	180	182	110
45°	58	57	59	60	60	46
55°	3	7	10	7	4	7
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°	698.1	698.1	698.1	698.1	698.1
2.5°	698.9	697.3	696.5	695.7	695.7
5°	691.7	690.9	689.3	687.7	688.5
7.5°	668.6	667.8	667.8	664.6	664.6
10°	631.1	631.1	628.7	628.7	626.3
12.5°	588.0	584.8	584.8	582.4	580.8
15°	540.1	538.5	536.2	531.4	532.2
17.5°	493.9	490.7	485.9	483.5	481.9
20°	452.4	451.6	443.6	442.0	443.6
22.5°	413.3	414.1	407.7	406.1	406.1
25°	369.4	372.6	368.6	367.8	367.0
27.5°	322.3	327.9	330.3	324.7	323.9
30°	268.9	278.4	283.2	277.6	273.7
32.5°	217.0	226.6	231.4	227.4	225.0
35°	173.1	178.7	183.5	179.5	181.9
37.5°	135.6	138.8	140.4	140.4	140.4
40°	102.1	105.3	107.7	108.5	106.9
42.5°	77.4	79.0	80.6	81.4	80.6
45°	58.2	57.4	59.0	59.8	59.8
47.5°	42.3	42.3	43.1	43.9	43.9
50°	27.1	28.7	30.3	29.5	29.5
52.5°	12.0	16.8	19.9	16.8	13.6
55°	3.2	7.2	9.6	7.2	4.0
57.5°	0.8	2.4	3.2	2.4	1.6
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)