

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 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 EU2B05WFL559030 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: 506.0 lumens
Efficiency: N/A
Efficacy: 69.3 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

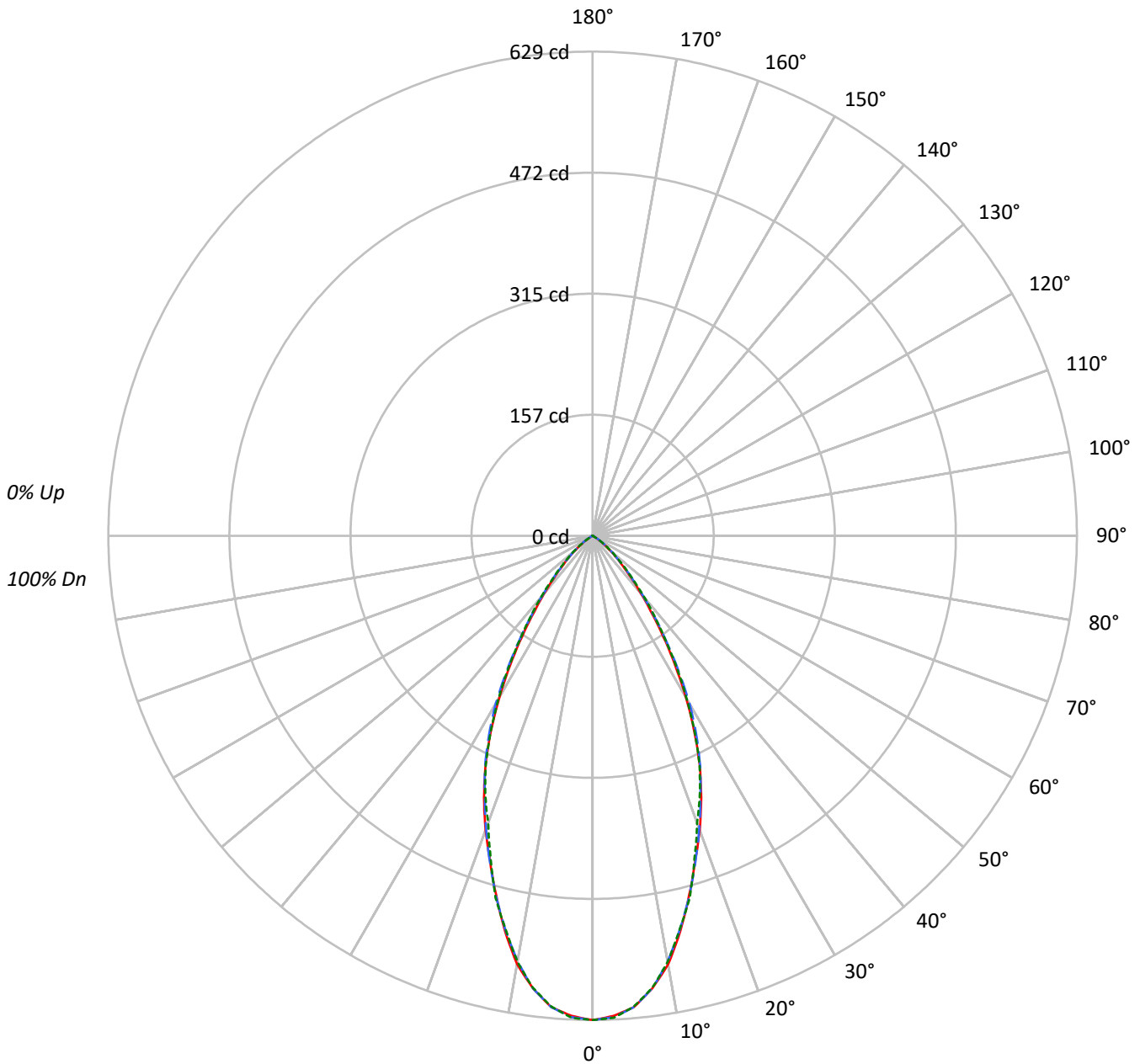
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	75	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°	243679	243679	243679
5°	239011	239011	238700
10°	222305	220732	221047
15°	194009	194329	195292
20°	167520	166861	163563
25°	140568	141252	140226
30°	108194	112488	109268
35°	75516	78542	77786
40°	49250	51272	52890
45°	30183	31936	33251
50°	17777	19223	20187
55°	7564	9725	9184
60°	1240	2479	1859
65°	733	733	733
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°	57.0	11.3
10°-20°	134.8	26.6
20°-30°	149.3	29.5
30°-40°	103.9	20.5
40°-50°	46.8	9.2
50°-60°	13.2	2.6
60°-70°	0.9	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°	341.2	67.4
0°-40°	445.1	88.0
0°-60°	505.1	99.8
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°	629	629	629	629	629	
5°	615	617	615	612	614	57
15°	484	486	485	484	487	135
25°	329	331	330	326	328	149
35°	160	164	166	166	164	101
45°	55	57	58	60	61	44
55°	11	13	14	14	14	11
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°	629.1	629.1	629.1	629.1	629.1
2.5°	624.3	627.5	625.9	625.9	626.7
5°	614.7	617.1	614.7	612.3	613.9
7.5°	593.2	595.6	593.2	591.6	592.4
10°	565.2	563.6	561.2	559.6	562.0
12.5°	526.1	525.3	523.7	522.9	522.9
15°	483.8	486.2	484.6	483.8	487.0
17.5°	443.1	445.5	443.9	441.5	439.9
20°	406.4	407.1	404.8	400.8	396.8
22.5°	368.8	369.6	365.6	364.0	364.0
25°	328.9	331.3	330.5	326.5	328.1
27.5°	285.8	289.8	291.4	286.6	286.6
30°	241.9	245.1	251.5	245.1	244.3
32.5°	198.8	203.6	206.8	206.0	203.6
35°	159.7	164.5	166.1	166.1	164.5
37.5°	124.5	129.3	130.9	132.5	132.5
40°	97.4	99.8	101.4	103.8	104.6
42.5°	73.4	75.8	78.2	79.8	79.0
45°	55.1	56.7	58.3	59.9	60.7
47.5°	41.5	41.5	43.1	44.7	44.7
50°	29.5	31.1	31.9	32.7	33.5
52.5°	20.0	20.8	22.4	23.2	22.4
55°	11.2	12.8	14.4	14.4	13.6
57.5°	4.8	7.2	8.0	8.0	6.4
60°	1.6	3.2	3.2	4.0	2.4
62.5°	0.8	1.6	1.6	1.6	0.8
65°	0.8	0.8	0.8	0.8	0.8
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)