

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: P283856

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

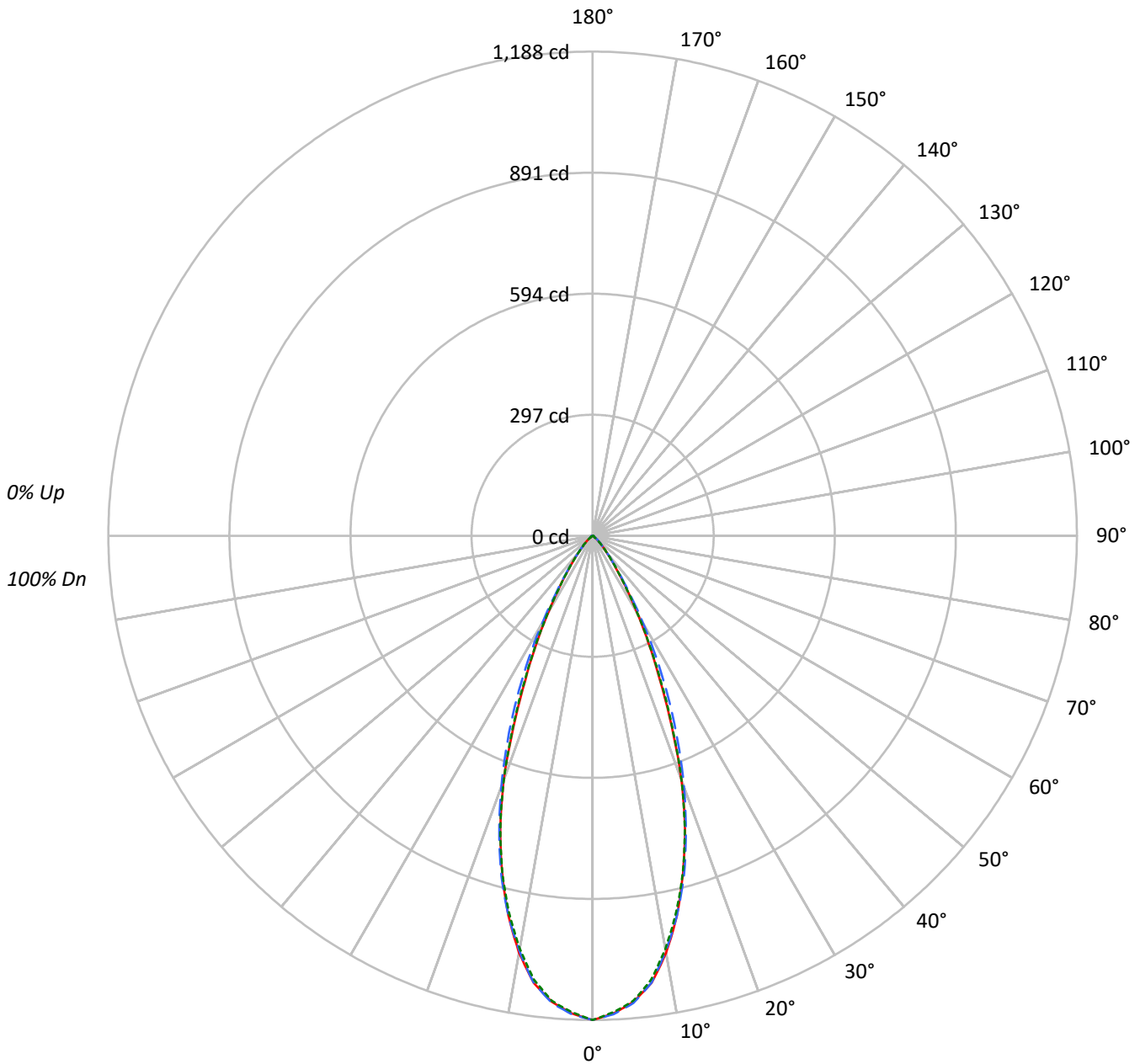
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283856

CATALOG NUMBER: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283856

CATALOG NUMBER: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	586163	586163	586163
5°	568543	569880	567354
10°	520410	518306	515200
15°	437726	441812	437011
20°	334756	343629	334178
25°	212574	239684	216712
30°	123622	139573	125786
35°	65348	69504	65589
40°	34520	36066	34520
45°	19257	20025	19536
50°	8980	11436	8980
55°	3269	6279	3527
60°	3750	3750	3750
65°	4086	4436	4086
70°	5049	4472	5049
75°	4575	4575	4575
80°	4830	3978	4830
85°	3962	3962	3962



TEST NUMBER: P283856

CATALOG NUMBER: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	16.5
10°-20°	236.1	36.6
20°-30°	190.7	29.6
30°-40°	75.4	11.7
40°-50°	23.1	3.6
50°-60°	6.0	0.9
60°-70°	3.6	0.6
70°-80°	2.6	0.4
80°-90°	0.8	0.1
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°	532.9	82.7
0°-40°	608.3	94.4
0°-60°	637.4	98.9
0°-90°	644.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1148	1150	1151	1148	1146	106
15°	857	859	865	862	856	235
25°	390	409	440	417	398	182
35°	108	112	115	112	109	73
45°	28	28	29	28	28	23
55°	4	5	7	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283856

CATALOG NUMBER: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.1	1188.1	1188.1	1188.1	1188.1
2.5°	1173.2	1173.9	1174.9	1173.6	1170.1
5°	1148.0	1150.1	1150.7	1148.3	1145.6
7.5°	1106.5	1104.1	1106.2	1102.0	1098.6
10°	1038.8	1035.7	1034.6	1028.4	1028.4
12.5°	955.2	954.1	954.8	951.7	946.9
15°	857.0	859.4	865.0	861.5	855.6
17.5°	753.0	756.5	761.3	760.3	752.3
20°	637.6	647.6	654.5	647.9	636.5
22.5°	506.3	527.7	545.3	531.5	512.8
25°	390.5	409.2	440.3	416.8	398.1
27.5°	296.2	309.6	338.0	314.8	302.0
30°	217.0	225.3	245.0	229.8	220.8
32.5°	155.2	161.0	169.3	160.3	155.9
35°	108.5	111.6	115.4	112.0	108.9
37.5°	76.4	77.4	80.2	77.4	76.0
40°	53.6	53.9	56.0	54.3	53.6
42.5°	38.7	38.7	39.7	39.0	38.7
45°	27.6	28.0	28.7	28.3	28.0
47.5°	19.7	20.4	20.4	20.7	19.4
50°	11.7	14.5	14.9	14.5	11.7
52.5°	6.2	8.6	10.7	8.6	6.2
55°	3.8	5.2	7.3	5.2	4.1
57.5°	3.8	3.8	4.8	4.1	3.8
60°	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.8	3.8	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.1	3.5	3.5
72.5°	3.1	3.1	2.8	3.1	3.1
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.4	1.7	1.7
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)