

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: P283828

Luminaire Tested: **LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283828
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: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 521.2 lumens
Efficiency: N/A
Efficacy: 74.5 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

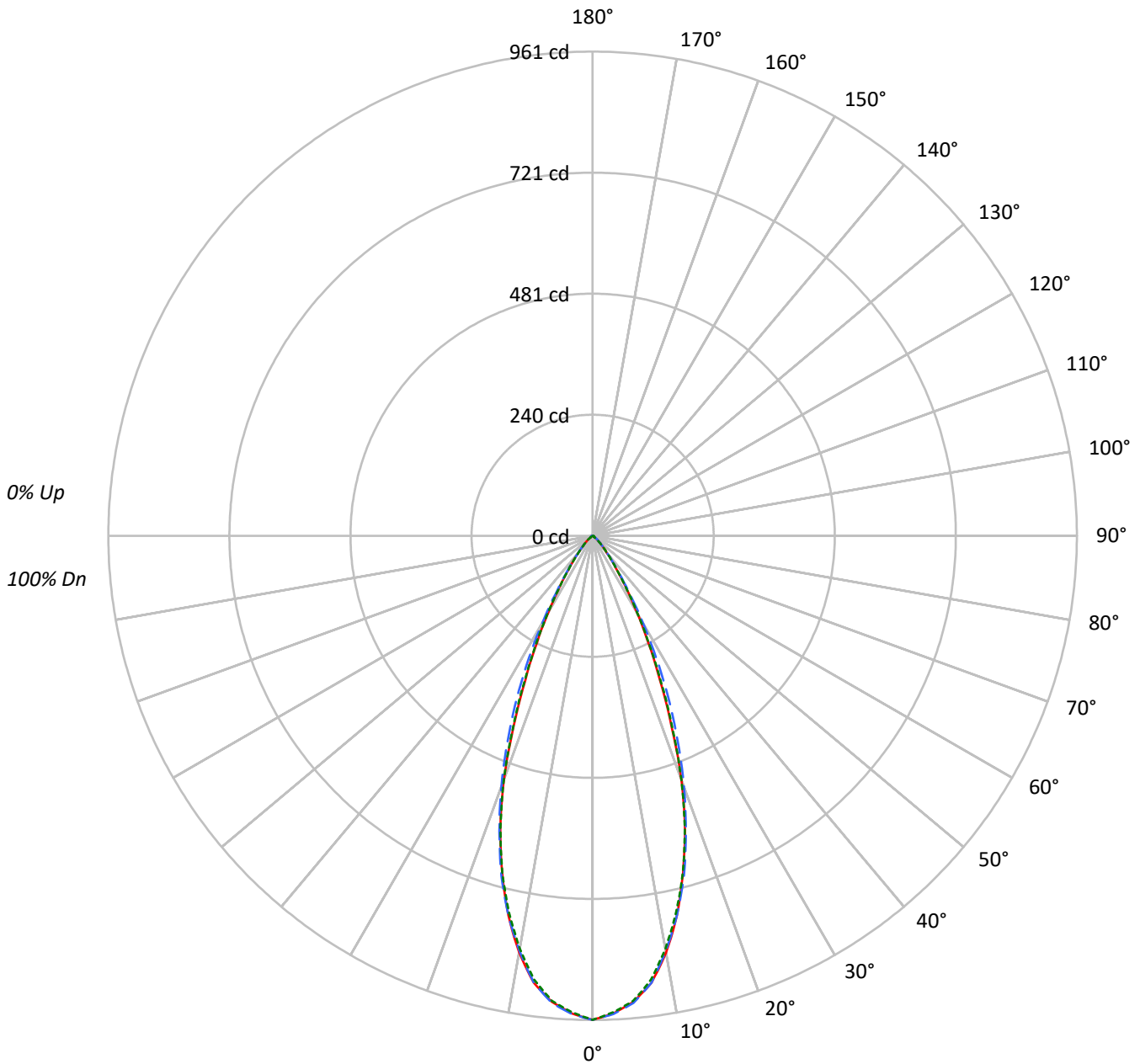
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283828

CATALOG NUMBER: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283828

CATALOG NUMBER: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS

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	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	83	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°	474071	474071	474071
5°	459836	460926	458846
10°	420917	419214	416709
15°	354063	357332	353450
20°	270755	277948	270283
25°	171910	193848	175285
30°	99980	112912	101746
35°	52880	56253	53001
40°	27887	29175	27887
45°	15629	16187	15768
50°	7292	9210	7292
55°	2666	5075	2925
60°	3059	3059	3059
65°	3269	3619	3269
70°	4039	3606	4039
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



TEST NUMBER: P283828

CATALOG NUMBER: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	16.5
10°-20°	191.0	36.6
20°-30°	154.2	29.6
30°-40°	61.0	11.7
40°-50°	18.7	3.6
50°-60°	4.8	0.9
60°-70°	2.9	0.6
70°-80°	2.1	0.4
80°-90°	0.6	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°	431.0	82.7
0°-40°	492.0	94.4
0°-60°	515.5	98.9
0°-90°	521.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	928	930	931	929	926	86
15°	693	695	700	697	692	190
25°	316	331	356	337	322	147
35°	88	90	93	91	88	59
45°	22	23	23	23	23	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283828

CATALOG NUMBER: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.9	960.9	960.9	960.9	960.9
2.5°	948.9	949.5	950.3	949.2	946.4
5°	928.5	930.2	930.7	928.8	926.5
7.5°	894.9	893.0	894.7	891.3	888.5
10°	840.2	837.7	836.8	831.8	831.8
12.5°	772.5	771.7	772.2	769.7	765.8
15°	693.2	695.1	699.6	696.8	692.0
17.5°	609.0	611.8	615.7	614.9	608.5
20°	515.7	523.8	529.4	524.1	514.8
22.5°	409.5	426.8	441.0	429.9	414.8
25°	315.8	330.9	356.1	337.1	322.0
27.5°	239.5	250.4	273.3	254.6	244.3
30°	175.5	182.2	198.2	185.9	178.6
32.5°	125.5	130.2	137.0	129.7	126.1
35°	87.8	90.3	93.4	90.6	88.0
37.5°	61.8	62.6	64.8	62.6	61.5
40°	43.3	43.6	45.3	43.9	43.3
42.5°	31.3	31.3	32.1	31.6	31.3
45°	22.4	22.6	23.2	22.9	22.6
47.5°	15.9	16.5	16.5	16.8	15.7
50°	9.5	11.7	12.0	11.7	9.5
52.5°	5.0	7.0	8.7	7.0	5.0
55°	3.1	4.2	5.9	4.2	3.4
57.5°	3.1	3.1	3.9	3.4	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	3.1	3.1	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.5	2.8	2.8
72.5°	2.5	2.5	2.2	2.5	2.5
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.6	0.6	0.6	0.6	0.6
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)