

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: P281463

Luminaire Tested: **LDA2B059030D010 EU2B05SP159030 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 642.3 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

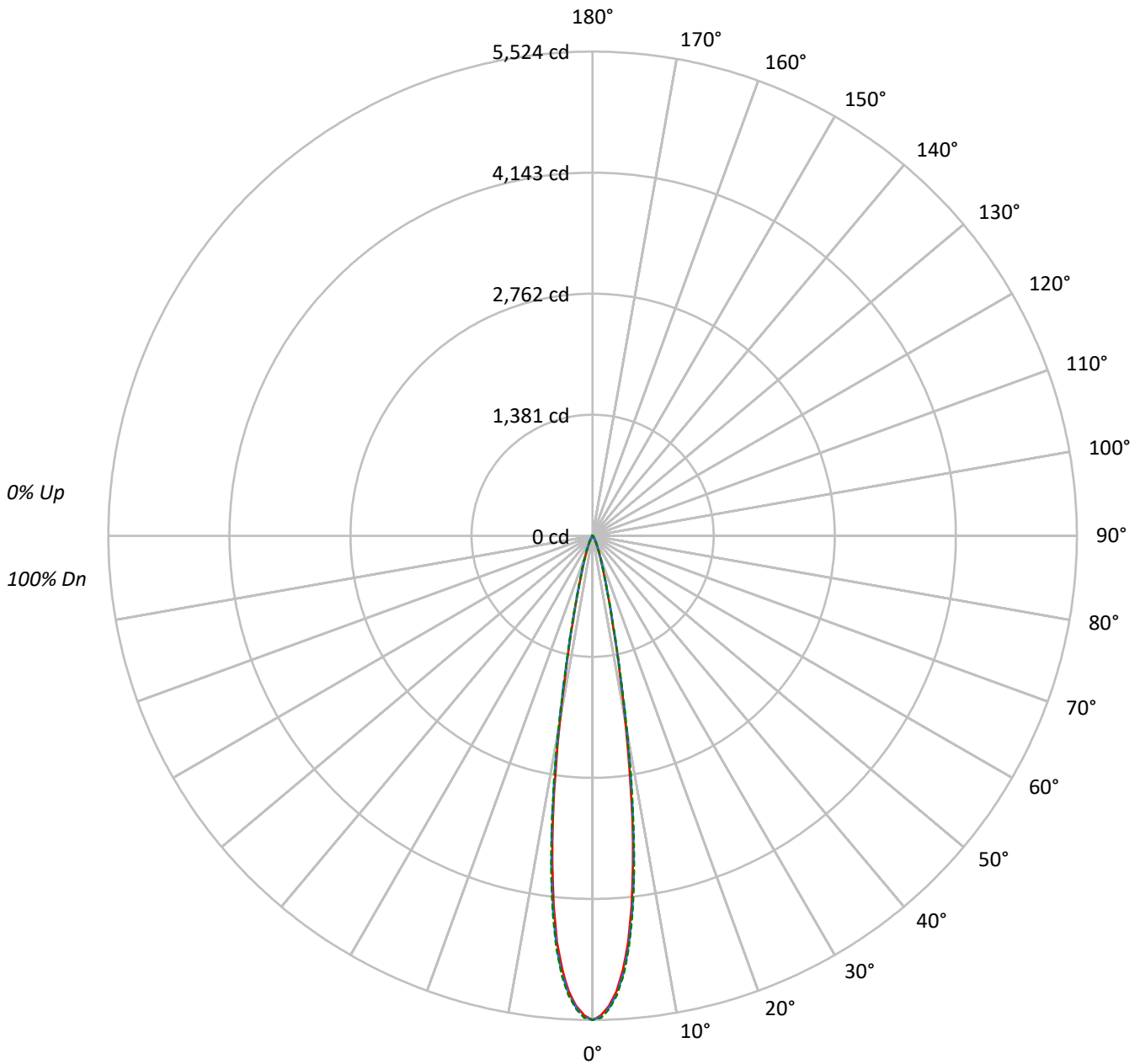
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281463

CATALOG NUMBER: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P281463

CATALOG NUMBER: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW

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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96						98											
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94						96											
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92						94											
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90						92											
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	88						90											
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87						89											
7	101	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85						87											
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	87	86	85	84						86											
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82						84											
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81						83											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2725281	2725281	2725281
5°	2306610	2330728	2340881
10°	1078594	1119474	1121678
15°	315909	320505	320352
20°	126846	127003	127213
25°	56559	62330	57920
30°	24041	33042	21933
35°	11022	15298	10299
40°	3607	5990	3220
45°	0	2163	0
50°	0	0	0
55°	1032	516	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	1705	0	0
85°	3396	0	0



TEST NUMBER: P281463

CATALOG NUMBER: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	56.8
10°-20°	206.9	32.2
20°-30°	54.0	8.4
30°-40°	13.9	2.2
40°-50°	1.4	0.2
50°-60°	0.4	0.1
60°-70°	0.1	0.0
70°-80°	0.5	0.1
80°-90°	0.1	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°	626.0	97.5
0°-40°	639.9	99.6
0°-60°	641.7	99.9
0°-90°	642.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5524	5524	5524	5524	5524	
5°	4658	4699	4706	4676	4727	360
15°	618	627	628	620	627	203
25°	104	113	114	109	106	52
35°	18	20	25	17	17	13
45°	0	1	3	0	0	1
55°	1	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	1
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281463

CATALOG NUMBER: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5523.9	5523.9	5523.9	5523.9	5523.9
1°	5472.1	5493.8	5487.3	5479.5	5501.2
2°	5366.6	5387.7	5385.8	5375.6	5401.0
3°	5204.1	5233.5	5233.5	5218.3	5250.0
4°	4961.8	5006.8	5011.1	4989.7	5029.1
5°	4657.5	4699.1	4706.2	4676.4	4726.7
6°	4245.3	4302.0	4318.2	4283.7	4335.2
7°	3771.6	3831.2	3855.7	3817.2	3874.9
8°	3260.7	3303.5	3333.0	3288.9	3347.6
9°	2689.0	2750.8	2777.8	2734.9	2792.0
10°	2153.0	2209.8	2234.6	2224.4	2239.0
11°	1672.2	1722.5	1739.2	1725.3	1732.1
12°	1309.3	1329.5	1340.3	1331.0	1335.7
13°	994.2	1021.1	1026.1	1022.1	1024.2
14°	776.4	789.4	795.0	793.2	794.1
15°	618.5	626.9	627.5	620.4	627.2
16°	498.2	504.7	507.5	500.0	509.0
17°	408.2	413.5	416.6	409.1	412.9
18°	335.9	340.0	344.3	337.8	343.4
19°	282.0	284.4	284.8	282.9	284.4
20°	241.6	240.4	241.9	238.5	242.3
22.5°	159.1	162.2	166.0	161.9	163.5
25°	103.9	112.6	114.5	109.2	106.4
26°	85.6	96.8	101.7	93.4	84.4
27°	71.0	79.1	85.6	74.4	67.3
28°	62.3	69.2	75.7	65.1	56.8
29°	52.1	58.9	70.1	58.0	52.7
30°	42.2	47.1	58.0	44.0	38.5
32.5°	23.9	27.9	37.5	26.1	21.4
35°	18.3	19.5	25.4	17.4	17.1
37.5°	15.8	14.3	19.9	14.3	11.5
40°	5.6	8.4	9.3	6.2	5.0
42.5°	2.5	2.5	4.0	1.2	1.2
45°	0.0	1.2	3.1	0.3	0.0
47.5°	0.0	0.0	0.6	0.0	0.0
50°	0.0	0.6	0.0	0.0	0.0
52.5°	0.6	0.0	0.0	0.0	0.0
55°	1.2	1.6	0.6	0.3	0.0
57.5°	1.9	1.6	0.6	0.6	0.6
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.6	0.3	0.0	0.0	0.0



TEST NUMBER: P281463

CATALOG NUMBER: LDA2B059030D010 EU2B05SP159030 2LBASQC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.3	0.0	0.0	0.0
77.5°	3.1	0.6	0.9	0.6	1.2
80°	0.6	0.0	0.0	0.0	0.0
82.5°	1.2	0.0	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.0	0.3	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.2	0.9	0.0	0.0	1.2



(END OF REPORT)