

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: P281639

Luminaire Tested: **LDA2B059040D010 EU2B05SP159040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059040D010 EU2B05SP159040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 681.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

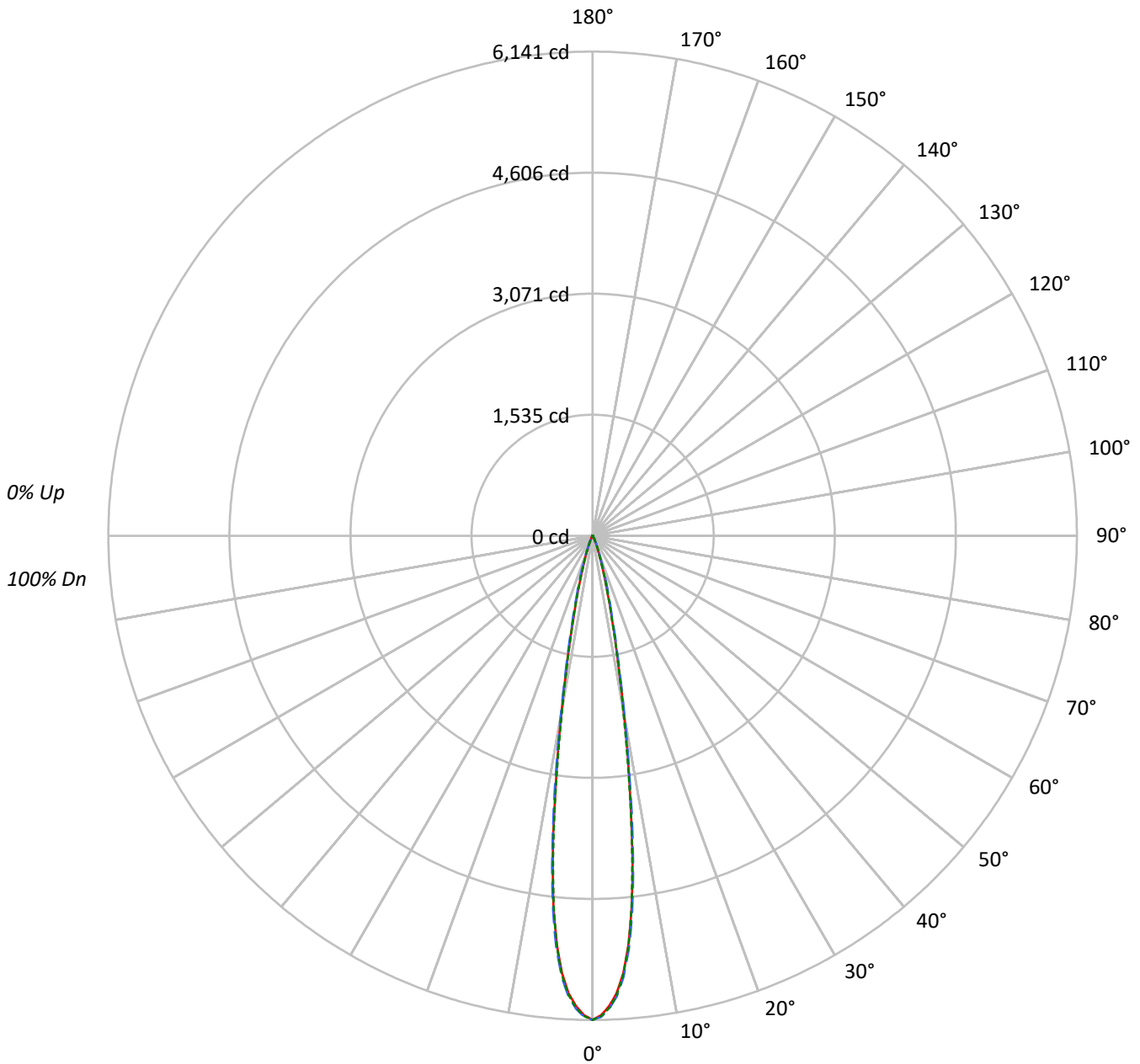
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3029537	3029537	3029537
5°	2579738	2606581	2584592
10°	1138911	1164962	1112310
15°	345584	396354	350998
20°	103377	137871	115558
25°	40283	39684	42352
30°	17945	16236	17091
35°	3674	3192	3192
40°	0	258	966
45°	3210	2651	4744
50°	0	844	2917
55°	0	0	1290
60°	0	395	1480
65°	0	0	934
70°	0	2164	4327
75°	0	0	0
80°	0	0	0
85°	0	2264	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	58.4
10°-20°	227.4	33.4
20°-30°	43.2	6.3
30°-40°	7.8	1.2
40°-50°	2.0	0.3
50°-60°	1.5	0.2
60°-70°	0.3	0.0
70°-80°	0.3	0.1
80°-90°	0.5	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°	668.6	98.2
0°-40°	676.4	99.3
0°-60°	680.0	99.8
0°-90°	681.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6141	6141	6141	6141	6141	
5°	5209	5243	5263	5254	5219	396
15°	677	736	776	729	687	215
25°	74	80	73	83	78	39
35°	6	8	5	6	5	8
45°	5	7	4	4	7	2
55°	0	0	0	0	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6140.6	6140.6	6140.6	6140.6	6140.6
1°	6082.5	6089.0	6102.6	6116.7	6094.7
2°	5968.7	5984.2	6003.6	6016.5	5992.6
3°	5809.3	5830.9	5851.4	5854.1	5831.7
4°	5563.0	5589.6	5611.2	5608.6	5580.5
5°	5209.0	5243.1	5263.2	5254.1	5218.8
6°	4741.1	4774.1	4799.9	4773.7	4726.3
7°	4158.2	4196.2	4223.5	4178.7	4120.7
8°	3482.8	3535.9	3563.2	3500.6	3441.0
9°	2843.0	2879.8	2907.5	2839.2	2778.5
10°	2273.4	2340.9	2325.4	2272.6	2220.3
11°	1788.1	1849.2	1851.8	1816.1	1764.9
12°	1399.9	1464.4	1480.7	1453.4	1407.8
13°	1106.2	1154.3	1181.3	1153.2	1109.9
14°	880.4	923.2	957.8	921.4	878.1
15°	676.6	735.8	776.0	729.0	687.2
16°	538.1	587.0	634.9	581.3	548.0
17°	413.2	456.9	506.2	457.6	430.3
18°	327.1	361.6	415.9	365.8	341.9
19°	256.1	282.3	332.8	288.8	269.4
20°	196.9	225.8	262.6	232.6	220.1
22.5°	119.2	135.1	145.7	136.6	130.2
25°	74.0	79.7	72.9	83.1	77.8
26°	64.5	68.7	67.2	74.0	67.5
27°	51.6	56.9	52.7	58.1	56.2
28°	47.1	53.5	45.2	51.6	48.6
29°	33.0	35.7	32.3	34.5	34.5
30°	31.5	32.3	28.5	31.1	30.0
32.5°	24.7	23.1	19.0	20.1	19.4
35°	6.1	7.6	5.3	6.5	5.3
37.5°	9.1	8.3	9.9	9.5	9.1
40°	0.0	0.4	0.4	0.4	1.5
42.5°	6.8	4.2	3.8	2.7	4.6
45°	4.6	7.2	3.8	4.2	6.8
47.5°	0.0	0.4	0.0	0.8	0.8
50°	0.0	0.8	1.1	1.5	3.8
52.5°	0.8	4.6	2.3	4.2	6.1
55°	0.0	0.4	0.0	0.4	1.5
57.5°	1.5	0.8	1.5	1.5	6.8
60°	0.0	0.8	0.4	0.4	1.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.8
67.5°	0.0	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.4	0.0	0.0
80°	0.0	0.4	0.0	0.0	0.0
82.5°	0.0	0.4	0.8	1.1	0.8
85°	0.0	0.4	0.4	0.4	1.5
87.5°	0.0	0.8	1.1	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.1	1.5	0.0	3.0
72.5°	0.0	1.9	0.4	0.4	0.0



(END OF REPORT)