

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: P283846

Luminaire Tested: **LDA2B059035D010 EU2B05WFL559035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283846
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: LDA2B059035D010 EU2B05WFL559035 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: 608.3 lumens
Efficiency: N/A
Efficacy: 86.9 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

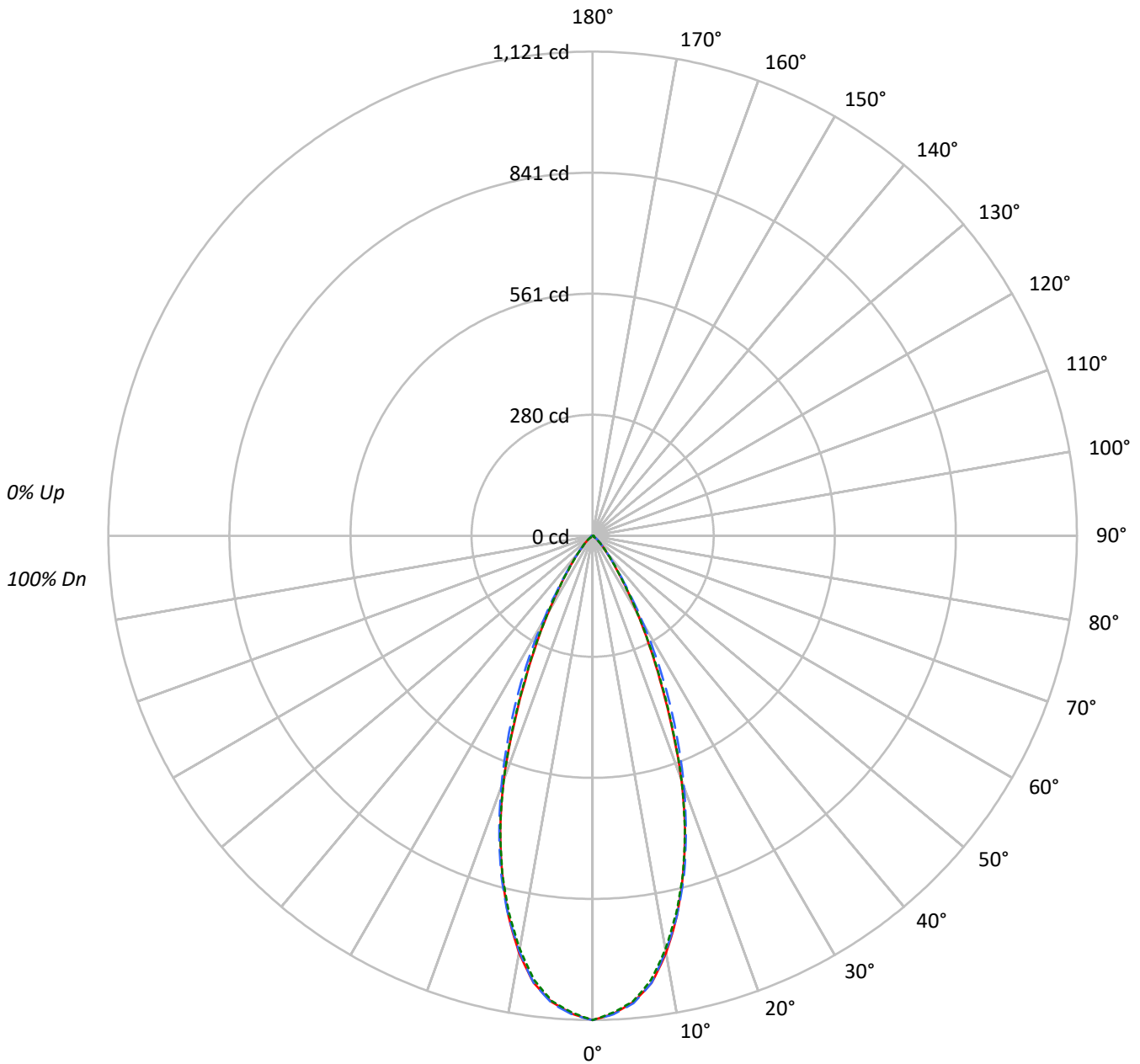
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	553256	553256	553256
5°	536649	537937	535510
10°	491204	489250	486294
15°	413158	416989	412494
20°	315960	324360	315435
25°	200653	226238	204572
30°	116672	131768	118722
35°	61674	65589	61855
40°	32588	34005	32588
45°	18210	18908	18420
50°	8520	10745	8520
55°	3097	5849	3355
60°	3552	3552	3552
65°	3852	4203	3852
70°	4760	4183	4760
75°	4384	4384	4384
80°	4546	3694	4546
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	16.5
10°-20°	222.9	36.6
20°-30°	180.0	29.6
30°-40°	71.1	11.7
40°-50°	21.8	3.6
50°-60°	5.6	0.9
60°-70°	3.4	0.6
70°-80°	2.5	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°	503.0	82.7
0°-40°	574.1	94.4
0°-60°	601.6	98.9
0°-90°	608.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1084	1086	1086	1084	1081	100
15°	809	811	816	813	808	222
25°	369	386	416	393	376	172
35°	102	105	109	106	103	69
45°	26	26	27	27	26	21
55°	4	5	7	5	4	5
65°	3	4	4	4	3	3
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1107.4	1108.1	1109.0	1107.7	1104.5
5°	1083.6	1085.5	1086.2	1083.9	1081.3
7.5°	1044.4	1042.2	1044.1	1040.2	1036.9
10°	980.5	977.6	976.6	970.7	970.7
12.5°	901.6	900.6	901.3	898.3	893.7
15°	808.9	811.2	816.4	813.2	807.6
17.5°	710.8	714.0	718.6	717.6	710.1
20°	601.8	611.3	617.8	611.6	600.8
22.5°	477.9	498.1	514.7	501.7	484.1
25°	368.6	386.2	415.6	393.4	375.8
27.5°	279.5	292.3	319.0	297.2	285.1
30°	204.8	212.7	231.3	216.9	208.4
32.5°	146.5	152.0	159.8	151.4	147.1
35°	102.4	105.4	108.9	105.7	102.7
37.5°	72.1	73.1	75.7	73.1	71.8
40°	50.6	50.9	52.8	51.2	50.6
42.5°	36.5	36.5	37.5	36.9	36.5
45°	26.1	26.4	27.1	26.7	26.4
47.5°	18.6	19.2	19.2	19.6	18.3
50°	11.1	13.7	14.0	13.7	11.1
52.5°	5.9	8.2	10.1	8.2	5.9
55°	3.6	4.9	6.8	4.9	3.9
57.5°	3.6	3.6	4.6	3.9	3.6
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.3	3.6	3.6	3.6	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	2.9	3.3	3.3
72.5°	2.9	2.9	2.6	2.9	2.9
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.3	1.6	1.6
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



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







(END OF REPORT)