

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: P283814

Luminaire Tested: **LDA2B058040D010 EU2B05WFL558040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283814
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: LDA2B058040D010 EU2B05WFL558040 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: 771.9 lumens
Efficiency: N/A
Efficacy: 110.3 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

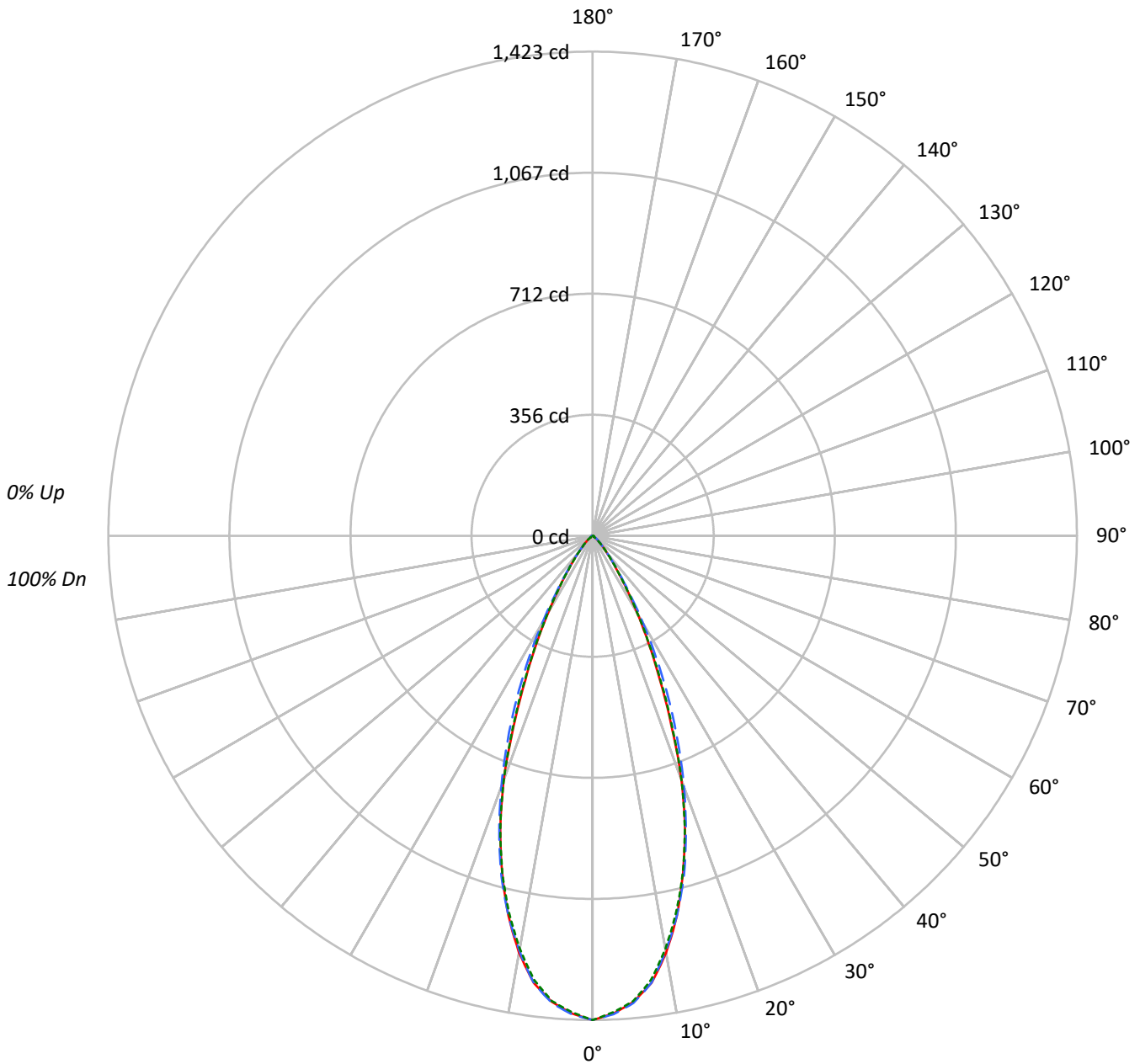
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	702152	702152	702152
5°	681013	682697	679627
10°	623360	620906	617148
15°	524352	529204	523484
20°	400961	411619	400331
25°	254654	287098	259607
30°	148118	167203	150682
35°	78297	83296	78538
40°	41347	43215	41347
45°	23094	24002	23374
50°	10822	13662	10822
55°	3957	7483	4301
60°	4539	4539	4539
65°	4786	5370	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5966	4830	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	16.5
10°-20°	282.9	36.6
20°-30°	228.4	29.6
30°-40°	90.3	11.7
40°-50°	27.7	3.6
50°-60°	7.2	0.9
60°-70°	4.3	0.6
70°-80°	3.2	0.4
80°-90°	0.9	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°	638.3	82.7
0°-40°	728.6	94.4
0°-60°	763.5	98.9
0°-90°	771.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1375	1378	1378	1376	1372	127
15°	1027	1030	1036	1032	1025	282
25°	468	490	527	499	477	218
35°	130	134	138	134	130	87
45°	33	34	34	34	34	27
55°	5	6	9	6	5	6
65°	4	5	5	5	4	4
75°	3	3	3	3	3	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°	1423.2	1423.2	1423.2	1423.2	1423.2
2.5°	1405.4	1406.2	1407.4	1405.8	1401.6
5°	1375.1	1377.6	1378.5	1375.6	1372.3
7.5°	1325.5	1322.6	1325.1	1320.1	1316.0
10°	1244.3	1240.6	1239.4	1231.9	1231.9
12.5°	1144.2	1142.9	1143.7	1140.0	1134.2
15°	1026.6	1029.5	1036.1	1032.0	1024.9
17.5°	902.0	906.1	911.9	910.7	901.2
20°	763.7	775.7	784.0	776.2	762.5
22.5°	606.4	632.1	653.2	636.7	614.3
25°	467.8	490.1	527.4	499.2	476.9
27.5°	354.8	370.9	404.8	377.1	361.8
30°	260.0	269.9	293.5	275.3	264.5
32.5°	185.9	192.9	202.8	192.1	186.7
35°	130.0	133.7	138.3	134.1	130.4
37.5°	91.5	92.7	96.0	92.7	91.1
40°	64.2	64.6	67.1	65.0	64.2
42.5°	46.4	46.4	47.6	46.8	46.4
45°	33.1	33.5	34.4	33.9	33.5
47.5°	23.6	24.4	24.4	24.8	23.2
50°	14.1	17.4	17.8	17.4	14.1
52.5°	7.5	10.3	12.8	10.3	7.5
55°	4.6	6.2	8.7	6.2	5.0
57.5°	4.6	4.6	5.8	5.0	4.6
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.1	4.6	4.6	4.6	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.7
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)