

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: P283872

Luminaire Tested: **LDA2B059730D010 EU2B05WFL559730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283872
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: LDA2B059730D010 EU2B05WFL559730 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 489.7 lumens
Efficiency: N/A
Efficacy: 70.0 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

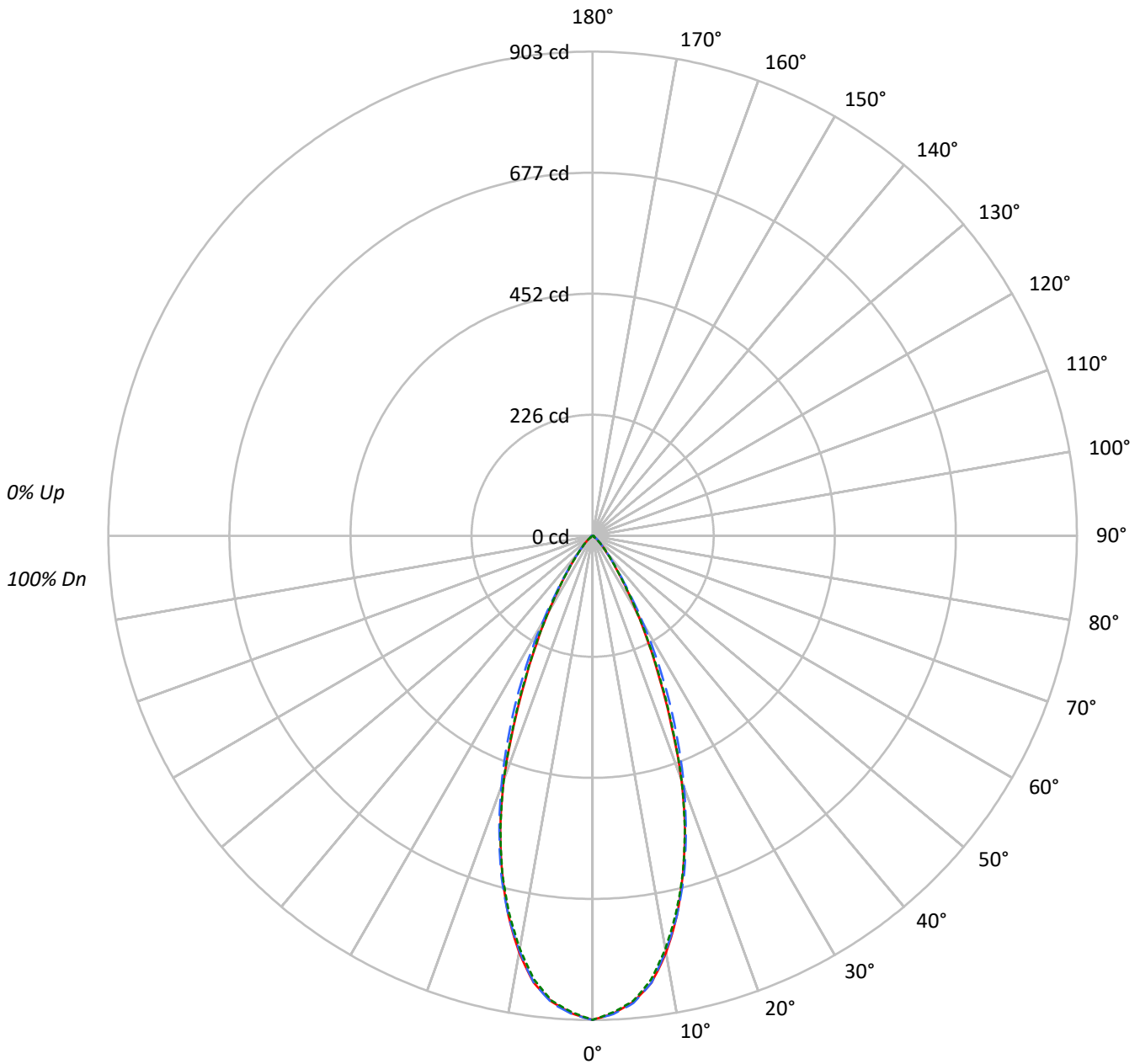
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	445456	445456	445456
5°	432102	433142	431161
10°	395518	393915	391560
15°	332662	335777	332151
20°	254427	261147	254007
25°	161567	182144	164725
30°	93941	106075	95593
35°	49688	52820	49809
40°	26212	27372	26212
45°	14652	15210	14861
50°	6831	8673	6831
55°	2494	4731	2752
60°	2861	2861	2861
65°	3035	3385	3035
70°	3750	3462	3750
75°	3431	3431	3431
80°	3694	3125	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	16.5
10°-20°	179.5	36.6
20°-30°	144.9	29.6
30°-40°	57.3	11.7
40°-50°	17.6	3.6
50°-60°	4.5	0.9
60°-70°	2.7	0.6
70°-80°	2.0	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°	405.0	82.7
0°-40°	462.3	94.4
0°-60°	484.4	98.9
0°-90°	489.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	872	874	875	873	871	81
15°	651	653	657	655	650	179
25°	297	311	335	317	303	138
35°	82	85	88	85	83	55
45°	21	21	22	22	21	17
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.9	902.9	902.9	902.9	902.9
2.5°	891.6	892.2	892.9	891.9	889.3
5°	872.5	874.0	874.6	872.7	870.6
7.5°	840.9	839.1	840.7	837.5	834.9
10°	789.5	787.1	786.3	781.6	781.6
12.5°	725.9	725.1	725.6	723.3	719.6
15°	651.3	653.2	657.4	654.7	650.3
17.5°	572.3	574.9	578.6	577.8	571.7
20°	484.6	492.2	497.4	492.4	483.8
22.5°	384.8	401.0	414.4	403.9	389.7
25°	296.8	311.0	334.6	316.7	302.6
27.5°	225.1	235.3	256.9	239.3	229.5
30°	164.9	171.2	186.2	174.6	167.8
32.5°	117.9	122.4	128.7	121.9	118.4
35°	82.5	84.8	87.7	85.1	82.7
37.5°	58.0	58.8	60.9	58.8	57.8
40°	40.7	41.0	42.5	41.2	40.7
42.5°	29.4	29.4	30.2	29.7	29.4
45°	21.0	21.3	21.8	21.5	21.3
47.5°	15.0	15.5	15.5	15.8	14.7
50°	8.9	11.0	11.3	11.0	8.9
52.5°	4.7	6.6	8.1	6.6	4.7
55°	2.9	3.9	5.5	3.9	3.2
57.5°	2.9	2.9	3.7	3.2	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.6	2.9	2.9	2.9	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.4	2.6	2.6
72.5°	2.4	2.4	2.1	2.4	2.4
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.1	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
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)