

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: P283829

Luminaire Tested: **LDA2B059024D010 EU2B05WFL559024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283829
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: LDA2B059024D010 EU2B05WFL559024 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 493.3 lumens
Efficiency: N/A
Efficacy: 70.5 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

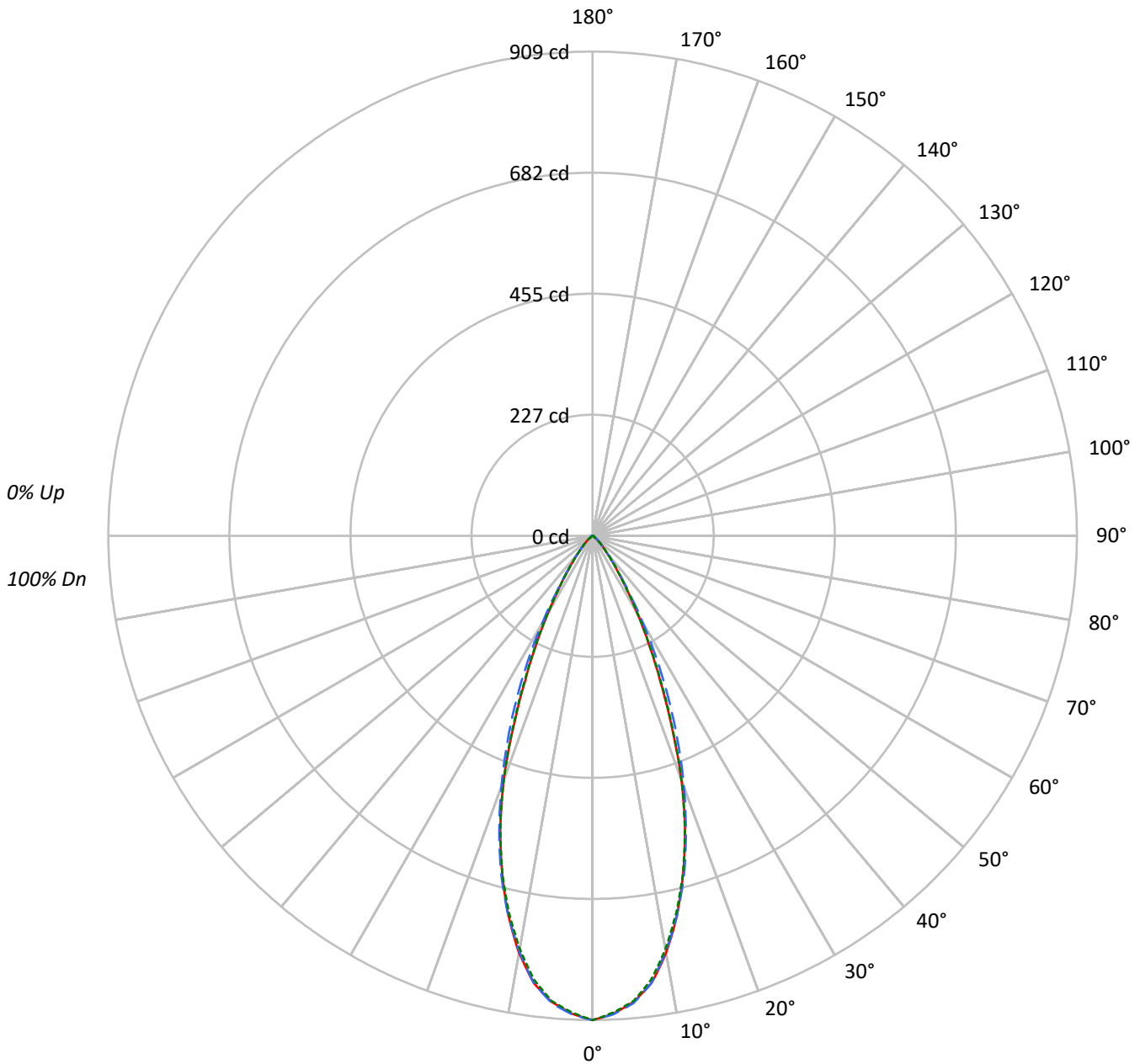
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	448663	448663	448663
5°	435173	436213	434282
10°	398323	396770	394366
15°	335062	338178	334500
20°	256212	263037	255792
25°	162711	183451	165868
30°	94625	106816	96277
35°	50050	53182	50170
40°	26406	27629	26406
45°	14792	15350	14931
50°	6908	8750	6908
55°	2494	4817	2752
60°	2861	2861	2861
65°	3035	3385	3035
70°	3750	3462	3750
75°	3622	3622	3622
80°	3694	3125	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	16.5
10°-20°	180.7	36.6
20°-30°	146.0	29.6
30°-40°	57.7	11.7
40°-50°	17.7	3.6
50°-60°	4.6	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°	407.9	82.7
0°-40°	465.6	94.4
0°-60°	487.9	98.9
0°-90°	493.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	879	880	881	879	877	81
15°	656	658	662	659	655	180
25°	299	313	337	319	305	139
35°	83	85	88	86	83	56
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°	909.4	909.4	909.4	909.4	909.4
2.5°	898.0	898.6	899.4	898.3	895.7
5°	878.7	880.3	880.8	879.0	876.9
7.5°	847.0	845.1	846.7	843.5	840.9
10°	795.1	792.8	792.0	787.2	787.2
12.5°	731.1	730.3	730.9	728.5	724.8
15°	656.0	657.9	662.1	659.4	654.9
17.5°	576.4	579.0	582.7	581.9	575.9
20°	488.0	495.7	501.0	496.0	487.2
22.5°	387.5	403.9	417.4	406.8	392.5
25°	298.9	313.2	337.0	319.0	304.7
27.5°	226.7	237.0	258.7	241.0	231.2
30°	166.1	172.5	187.5	175.9	169.0
32.5°	118.8	123.3	129.6	122.7	119.3
35°	83.1	85.4	88.3	85.7	83.3
37.5°	58.5	59.3	61.4	59.3	58.2
40°	41.0	41.3	42.9	41.5	41.0
42.5°	29.6	29.6	30.4	29.9	29.6
45°	21.2	21.4	22.0	21.7	21.4
47.5°	15.1	15.6	15.6	15.9	14.8
50°	9.0	11.1	11.4	11.1	9.0
52.5°	4.8	6.6	8.2	6.6	4.8
55°	2.9	4.0	5.6	4.0	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°	1.9	1.9	1.9	1.9	1.9
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)