

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: P283800

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283800  
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: LDA2B058027D010 EU2B05WFL558027 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: 648.9 lumens  
Efficiency: N/A  
Efficacy: 92.7 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

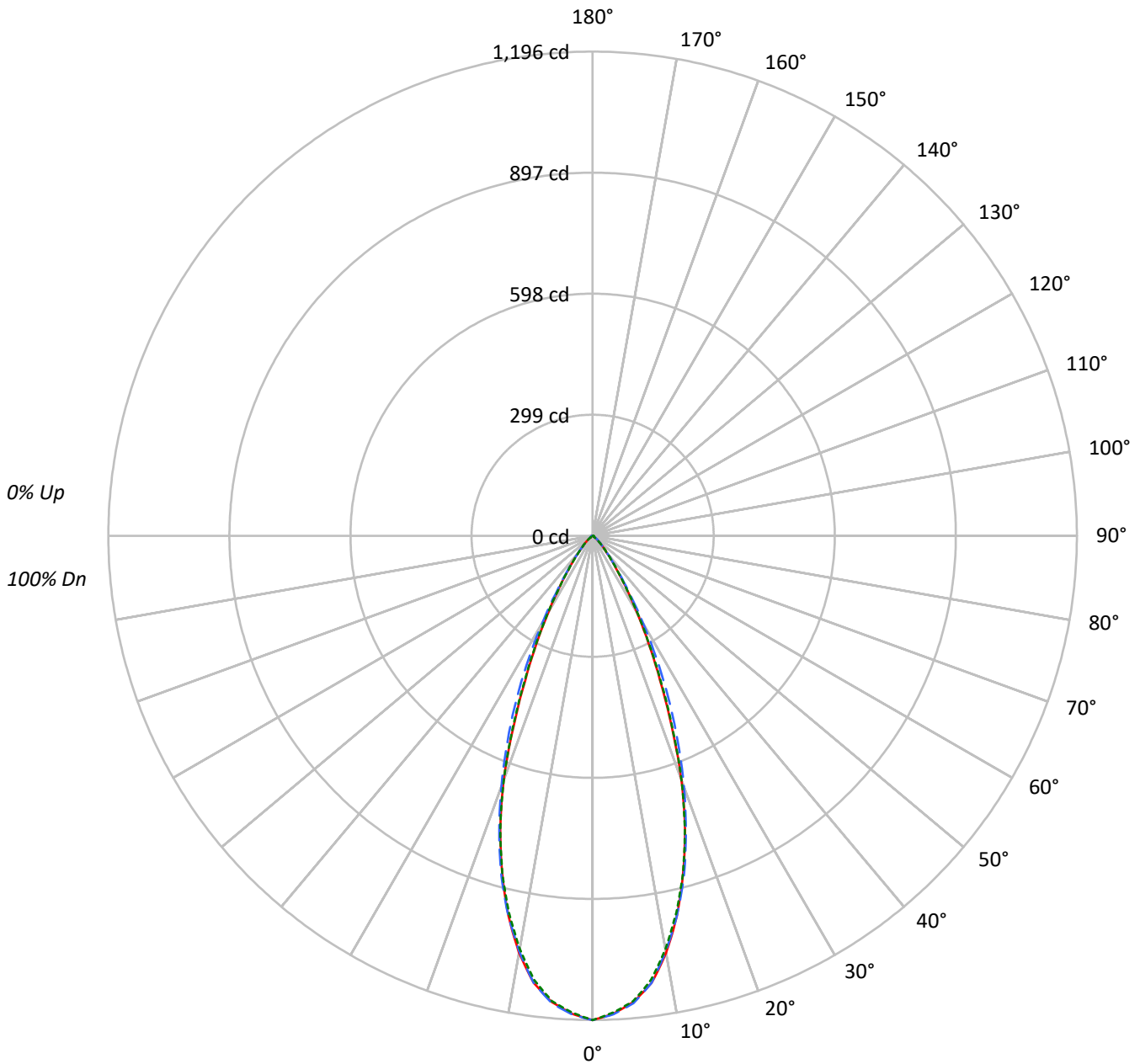
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	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°	590307	590307	590307
5°	572554	573941	571366
10°	524068	522014	518857
15°	440842	444928	440127
20°	337118	346044	336541
25°	214099	241371	218236
30°	124533	140541	126698
35°	65830	69985	66010
40°	34714	36324	34714
45°	19397	20164	19676
50°	9057	11513	9057
55°	3269	6279	3613
60°	3750	3750	3750
65°	4086	4436	4086
70°	5049	4472	5049
75°	4575	4575	4575
80°	4830	3978	4830
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	16.5
10°-20°	237.8	36.6
20°-30°	192.1	29.6
30°-40°	75.9	11.7
40°-50°	23.3	3.6
50°-60°	6.0	0.9
60°-70°	3.6	0.6
70°-80°	2.6	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°	536.7	82.7
0°-40°	612.6	94.4
0°-60°	641.9	98.9
0°-90°	648.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1156	1158	1159	1156	1154	107
15°	863	866	871	868	862	237
25°	393	412	443	420	401	183
35°	109	112	116	113	110	73
45°	28	28	29	28	28	23
55°	4	5	7	5	4	5
65°	4	4	4	4	4	4
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°	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1181.5	1182.2	1183.3	1181.9	1178.4
5°	1156.1	1158.2	1158.9	1156.5	1153.7
7.5°	1114.4	1111.9	1114.0	1109.8	1106.3
10°	1046.1	1043.0	1042.0	1035.7	1035.7
12.5°	961.9	960.9	961.6	958.4	953.6
15°	863.1	865.5	871.1	867.6	861.7
17.5°	758.3	761.8	766.7	765.6	757.6
20°	642.1	652.2	659.1	652.5	641.0
22.5°	509.8	531.4	549.2	535.3	516.5
25°	393.3	412.1	443.4	419.7	400.9
27.5°	298.3	311.8	340.4	317.0	304.2
30°	218.6	226.9	246.7	231.4	222.4
32.5°	156.3	162.2	170.5	161.5	157.0
35°	109.3	112.4	116.2	112.8	109.6
37.5°	76.9	78.0	80.7	78.0	76.6
40°	53.9	54.3	56.4	54.6	53.9
42.5°	39.0	39.0	40.0	39.3	39.0
45°	27.8	28.2	28.9	28.5	28.2
47.5°	19.8	20.5	20.5	20.9	19.5
50°	11.8	14.6	15.0	14.6	11.8
52.5°	6.3	8.7	10.8	8.7	6.3
55°	3.8	5.2	7.3	5.2	4.2
57.5°	3.8	3.8	4.9	4.2	3.8
60°	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.8	3.8	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.1	3.5	3.5
72.5°	3.1	3.1	2.8	3.1	3.1
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.4	1.7	1.7
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)