

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: P283851

Luminaire Tested: **LDA2B059040D010 EU2B05WFL559040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283851  
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: LDA2B059040D010 EU2B05WFL559040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 609.4 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

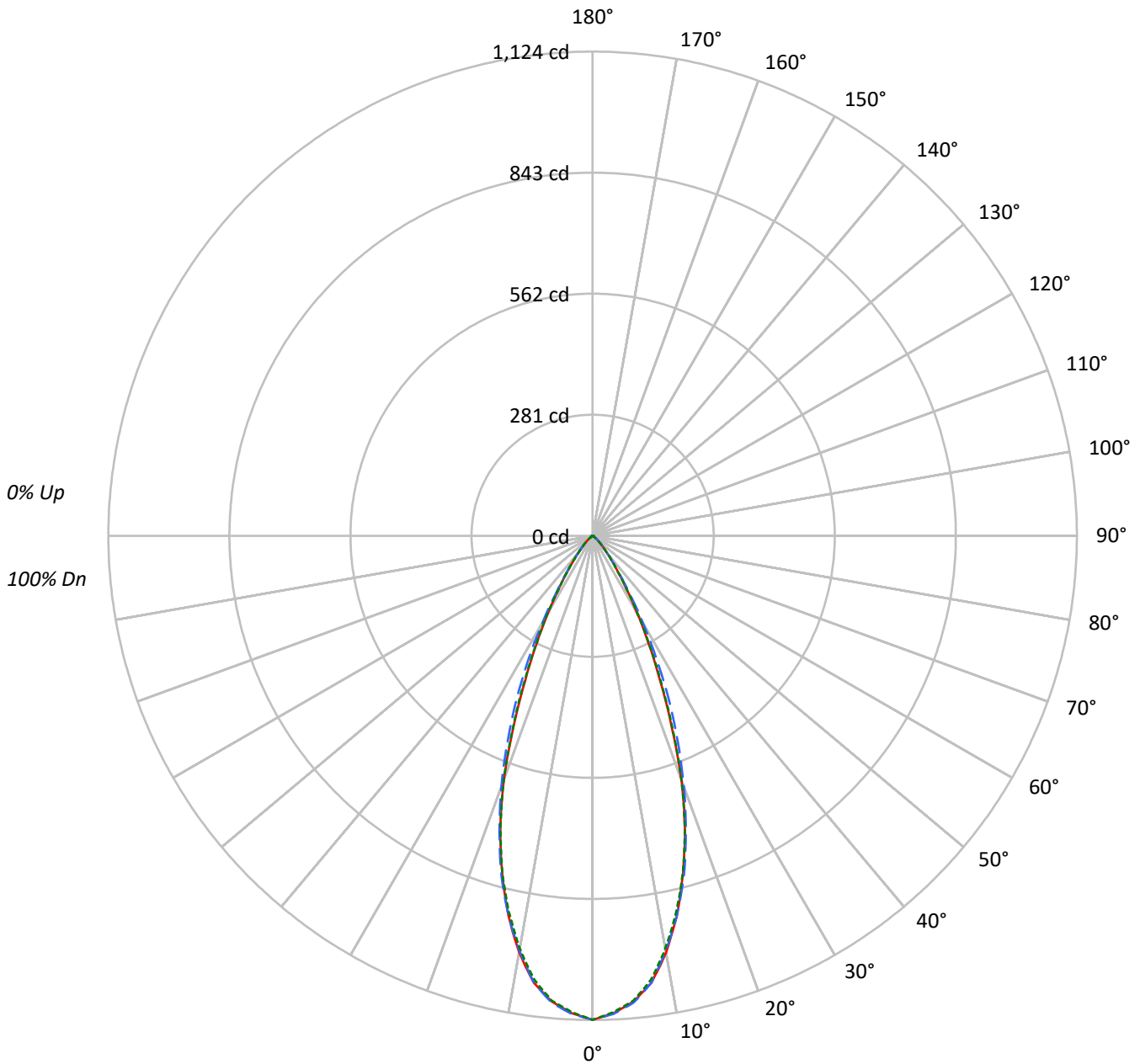
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	554341	554341	554341
5°	537689	538977	536550
10°	492156	490202	487246
15°	413976	417806	413312
20°	316590	324990	316065
25°	201034	226673	204953
30°	116899	131996	118950
35°	61794	65769	61975
40°	32653	34070	32653
45°	18210	18908	18490
50°	8520	10822	8520
55°	3097	5935	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°	100.3	16.5
10°-20°	223.3	36.6
20°-30°	180.3	29.6
30°-40°	71.3	11.7
40°-50°	21.9	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°	504.0	82.7
0°-40°	575.2	94.4
0°-60°	602.8	98.9
0°-90°	609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1086	1088	1088	1086	1083	100
15°	810	813	818	815	809	223
25°	369	387	416	394	376	172
35°	103	106	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°	1123.6	1123.6	1123.6	1123.6	1123.6
2.5°	1109.5	1110.2	1111.1	1109.8	1106.6
5°	1085.7	1087.6	1088.3	1086.0	1083.4
7.5°	1046.4	1044.2	1046.1	1042.2	1038.9
10°	982.4	979.4	978.5	972.6	972.6
12.5°	903.3	902.3	903.0	900.0	895.5
15°	810.5	812.8	818.0	814.7	809.2
17.5°	712.1	715.4	720.0	719.0	711.5
20°	603.0	612.4	619.0	612.8	602.0
22.5°	478.8	499.0	515.7	502.6	485.0
25°	369.3	386.9	416.4	394.1	376.5
27.5°	280.1	292.8	319.6	297.7	285.6
30°	205.2	213.1	231.7	217.3	208.8
32.5°	146.7	152.3	160.1	151.6	147.4
35°	102.6	105.6	109.2	105.9	102.9
37.5°	72.2	73.2	75.8	73.2	71.9
40°	50.7	51.0	52.9	51.3	50.7
42.5°	36.6	36.6	37.6	36.9	36.6
45°	26.1	26.5	27.1	26.8	26.5
47.5°	18.6	19.3	19.3	19.6	18.3
50°	11.1	13.7	14.1	13.7	11.1
52.5°	5.9	8.2	10.1	8.2	5.9
55°	3.6	4.9	6.9	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)