

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: P282375

Luminaire Tested: **LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208030D010 EU2B20NFL258030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1817.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

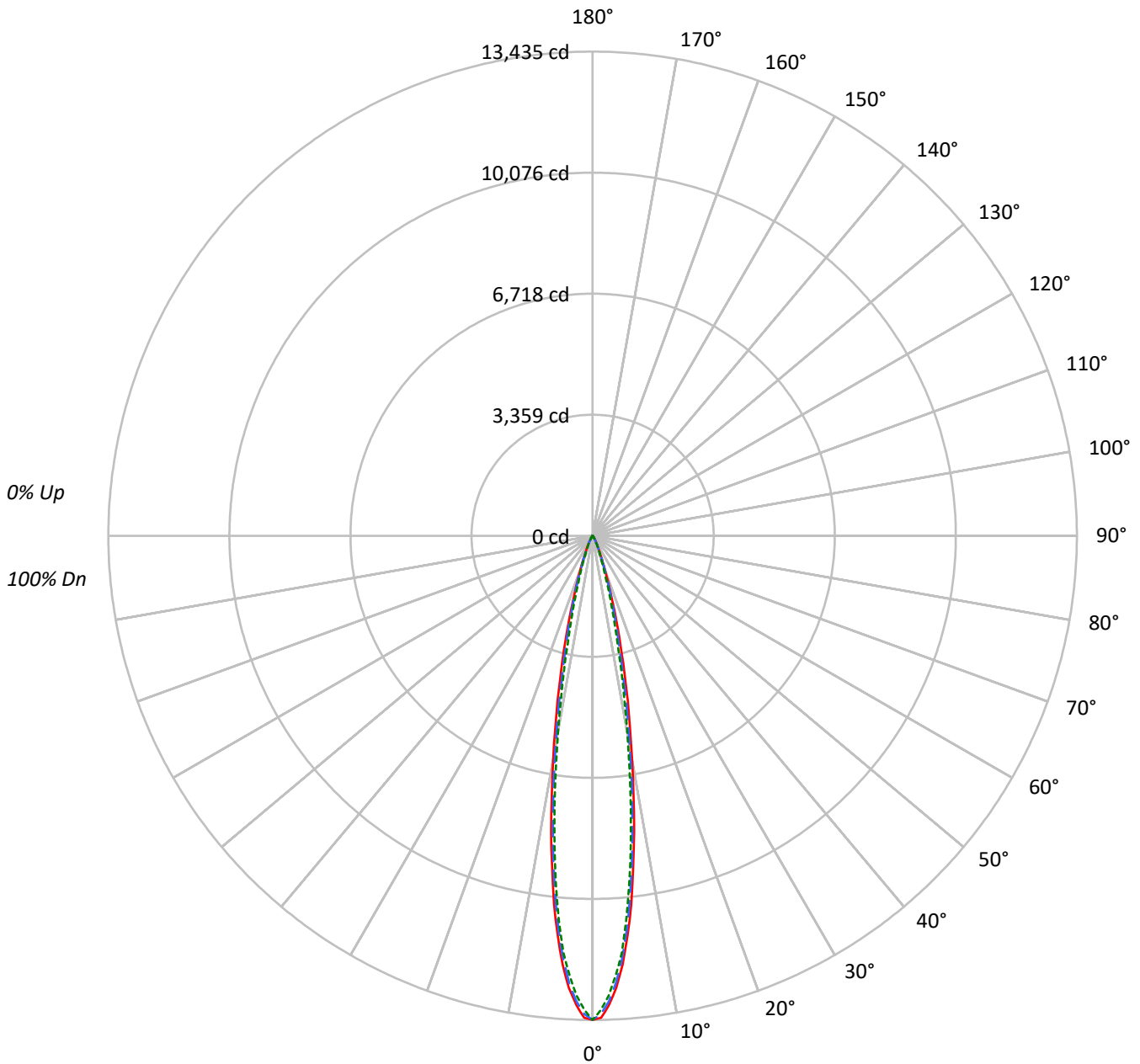
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6628414	6628414	6628414
5°	5515509	5414429	5305128
10°	3159234	2964606	2766822
15°	1405168	1247954	1045793
20°	509746	479295	379750
25°	195753	182743	157376
30°	84427	78503	69672
35°	39931	39931	33065
40°	20030	20674	16681
45°	11582	10815	10117
50°	7982	7138	7138
55°	6279	4473	5333
60°	5131	3059	4046
65°	3619	2452	3619
70°	3029	1442	3029
75°	1906	1906	1906
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.8	48.1
10°-20°	707.1	38.9
20°-30°	170.5	9.4
30°-40°	43.5	2.4
40°-50°	13.0	0.7
50°-60°	5.5	0.3
60°-70°	2.7	0.1
70°-80°	0.9	0.0
80°-90°	0.0	0.0
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°	1751.5	96.4
0°-40°	1794.9	98.8
0°-60°	1813.4	99.8
0°-90°	1817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13435	13435	13435	13435	13435	
5°	11137	11034	10933	10838	10712	901
15°	2751	2686	2443	2201	2048	784
25°	360	362	336	305	289	186
35°	66	67	66	60	55	46
45°	17	17	16	14	14	14
55°	7	6	5	5	6	6
65°	3	3	2	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13435.2	13435.2	13435.2	13435.2	13435.2
1°	13375.1	13281.8	13270.4	13328.5	13157.5
2°	13033.1	12966.8	12928.5	12962.7	12768.9
3°	12563.8	12499.5	12430.1	12431.1	12214.6
4°	11924.4	11873.7	11756.6	11721.3	11596.0
5°	11136.9	11034.3	10932.8	10837.5	10712.1
6°	10266.5	10133.9	9988.8	9846.9	9718.4
7°	9242.8	9154.7	8963.0	8769.2	8660.4
8°	8280.2	8138.2	7914.4	7671.9	7579.7
9°	7245.0	7143.5	6886.5	6604.7	6512.4
10°	6306.2	6200.5	5917.7	5603.7	5522.9
11°	5425.5	5326.0	5031.7	4702.2	4616.2
12°	4680.5	4539.5	4201.7	3915.7	3831.8
13°	3938.5	3842.2	3522.0	3239.1	3076.4
14°	3307.5	3227.7	2937.6	2688.9	2516.9
15°	2751.1	2685.8	2443.3	2200.9	2047.5
16°	2256.8	2216.4	2024.7	1790.5	1665.2
17°	1830.9	1793.6	1671.4	1455.8	1350.2
18°	1478.6	1473.5	1371.9	1185.4	1091.1
19°	1216.5	1214.4	1121.2	964.7	887.0
20°	970.9	984.4	912.9	776.1	723.3
21°	791.6	798.9	741.9	638.3	590.6
22°	644.5	649.7	612.4	527.4	501.5
23°	528.5	531.6	500.5	437.3	414.5
24°	435.2	437.3	409.3	364.7	345.0
25°	359.6	361.6	335.7	304.6	289.1
26°	298.4	300.5	277.7	255.9	240.4
27°	247.6	251.8	229.0	215.5	198.9
28°	211.4	212.4	191.7	183.4	167.9
29°	173.0	179.3	161.6	154.4	143.0
30°	148.2	151.3	137.8	132.6	122.3
32.5°	98.4	100.5	94.3	90.1	81.9
35°	66.3	67.4	66.3	60.1	54.9
37.5°	45.6	45.6	46.6	39.4	37.3
40°	31.1	31.1	32.1	26.9	25.9
42.5°	22.8	22.8	21.8	18.7	18.7
45°	16.6	16.6	15.5	14.5	14.5
47.5°	13.5	12.4	11.4	11.4	11.4
50°	10.4	10.4	9.3	8.3	9.3
52.5°	8.3	8.3	7.3	7.3	7.3
55°	7.3	6.2	5.2	5.2	6.2
57.5°	5.2	5.2	4.1	4.1	5.2
60°	5.2	4.1	3.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	1.0	1.0	2.1
72.5°	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	2.1	2.1	3.1



(END OF REPORT)