

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: P282387

Luminaire Tested: **LDA2B208040D010 EU2B20NFL258040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282387
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: LDA2B208040D010 EU2B20NFL258040 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: 1912.3 lumens
Efficiency: N/A
Efficacy: 92.8 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

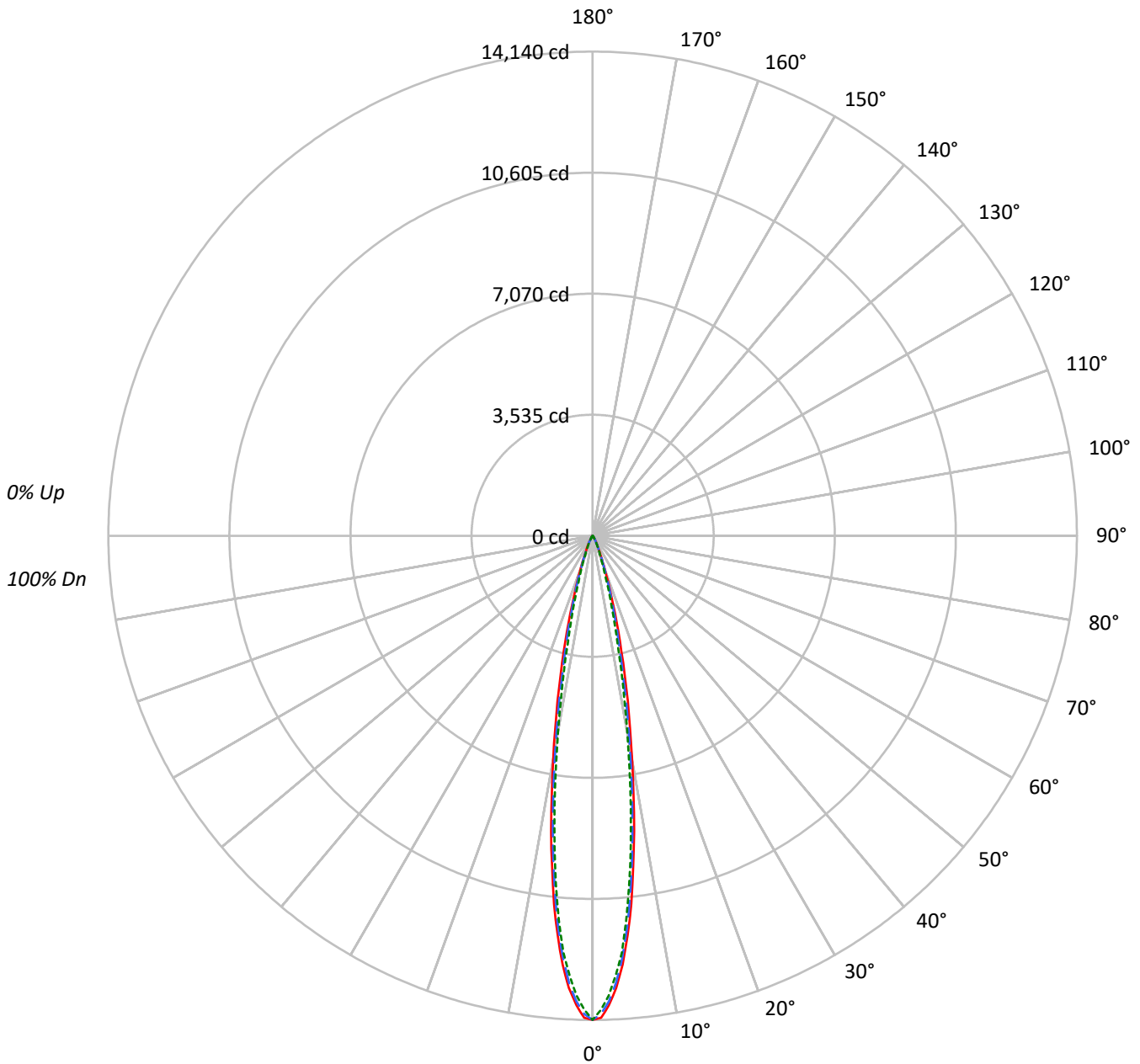
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6976086	6976086	6976086
5°	5804832	5698404	5583407
10°	3324956	3120058	2911954
15°	1478871	1313434	1100649
20°	536470	504444	399649
25°	205988	192324	165650
30°	88814	82604	73318
35°	42039	42039	34812
40°	21060	21768	17582
45°	12140	11443	10675
50°	8366	7522	7522
55°	6537	4731	5591
60°	5427	3256	4342
65°	3852	2568	3852
70°	3173	1587	3173
75°	2097	2097	2097
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.6	48.1
10°-20°	744.2	38.9
20°-30°	179.5	9.4
30°-40°	45.8	2.4
40°-50°	13.6	0.7
50°-60°	5.8	0.3
60°-70°	2.8	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°	1843.3	96.4
0°-40°	1889.1	98.8
0°-60°	1908.6	99.8
0°-90°	1912.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14140	14140	14140	14140	14140	
5°	11721	11613	11506	11406	11274	948
15°	2895	2827	2572	2316	2155	826
25°	378	381	353	321	304	195
35°	70	71	70	63	58	48
45°	17	17	16	15	15	15
55°	8	6	6	6	6	7
65°	3	3	2	2	3	4
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°	14139.9	14139.9	14139.9	14139.9	14139.9
1°	14076.6	13978.5	13966.5	14027.6	13847.6
2°	13716.8	13647.0	13606.6	13642.6	13438.7
3°	13222.7	13155.1	13082.1	13083.2	12855.2
4°	12549.9	12496.4	12373.2	12336.1	12204.2
5°	11721.1	11613.1	11506.2	11405.9	11274.0
6°	10805.0	10665.4	10512.8	10363.4	10228.1
7°	9727.6	9634.9	9433.1	9229.2	9114.7
8°	8714.5	8565.1	8329.5	8074.3	7977.3
9°	7625.0	7518.1	7247.7	6951.1	6854.0
10°	6637.0	6525.8	6228.0	5897.6	5812.6
11°	5710.0	5605.4	5295.6	4948.8	4858.3
12°	4925.9	4777.6	4422.1	4121.1	4032.8
13°	4145.1	4043.7	3706.7	3409.0	3237.8
14°	3481.0	3397.0	3091.7	2829.9	2648.9
15°	2895.4	2826.7	2571.5	2316.3	2154.9
16°	2375.2	2332.7	2130.9	1884.4	1752.5
17°	1927.0	1887.7	1759.0	1532.2	1421.0
18°	1556.2	1550.7	1443.9	1247.6	1148.3
19°	1280.3	1278.1	1180.0	1015.3	933.5
20°	1021.8	1036.0	960.8	816.8	761.2
21°	833.2	840.8	780.8	671.8	621.6
22°	678.3	683.8	644.5	555.1	527.8
23°	556.2	559.4	526.7	460.2	436.2
24°	458.0	460.2	430.8	383.9	363.1
25°	378.4	380.6	353.3	320.6	304.3
26°	314.1	316.3	292.3	269.4	253.0
27°	260.6	265.0	241.0	226.8	209.4
28°	222.5	223.6	201.7	193.0	176.7
29°	182.1	188.7	170.1	162.5	150.5
30°	155.9	159.2	145.0	139.6	128.7
32.5°	103.6	105.8	99.2	94.9	86.2
35°	69.8	70.9	69.8	63.3	57.8
37.5°	48.0	48.0	49.1	41.4	39.3
40°	32.7	32.7	33.8	28.4	27.3
42.5°	24.0	24.0	22.9	19.6	19.6
45°	17.4	17.4	16.4	15.3	15.3
47.5°	14.2	13.1	12.0	12.0	12.0
50°	10.9	10.9	9.8	8.7	9.8
52.5°	8.7	8.7	7.6	7.6	7.6
55°	7.6	6.5	5.5	5.5	6.5
57.5°	5.5	5.5	4.4	4.4	5.5
60°	5.5	4.4	3.3	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	2.2	2.2	2.2	2.2
70°	2.2	2.2	1.1	1.1	2.2
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	0.0	1.1
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°	4.4	3.3	3.3	3.3	3.3
65°	3.3	3.3	2.2	2.2	3.3



(END OF REPORT)