

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: P284097

Luminaire Tested: **LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284097
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: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 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: 1500.7 lumens
Efficiency: N/A
Efficacy: 72.8 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

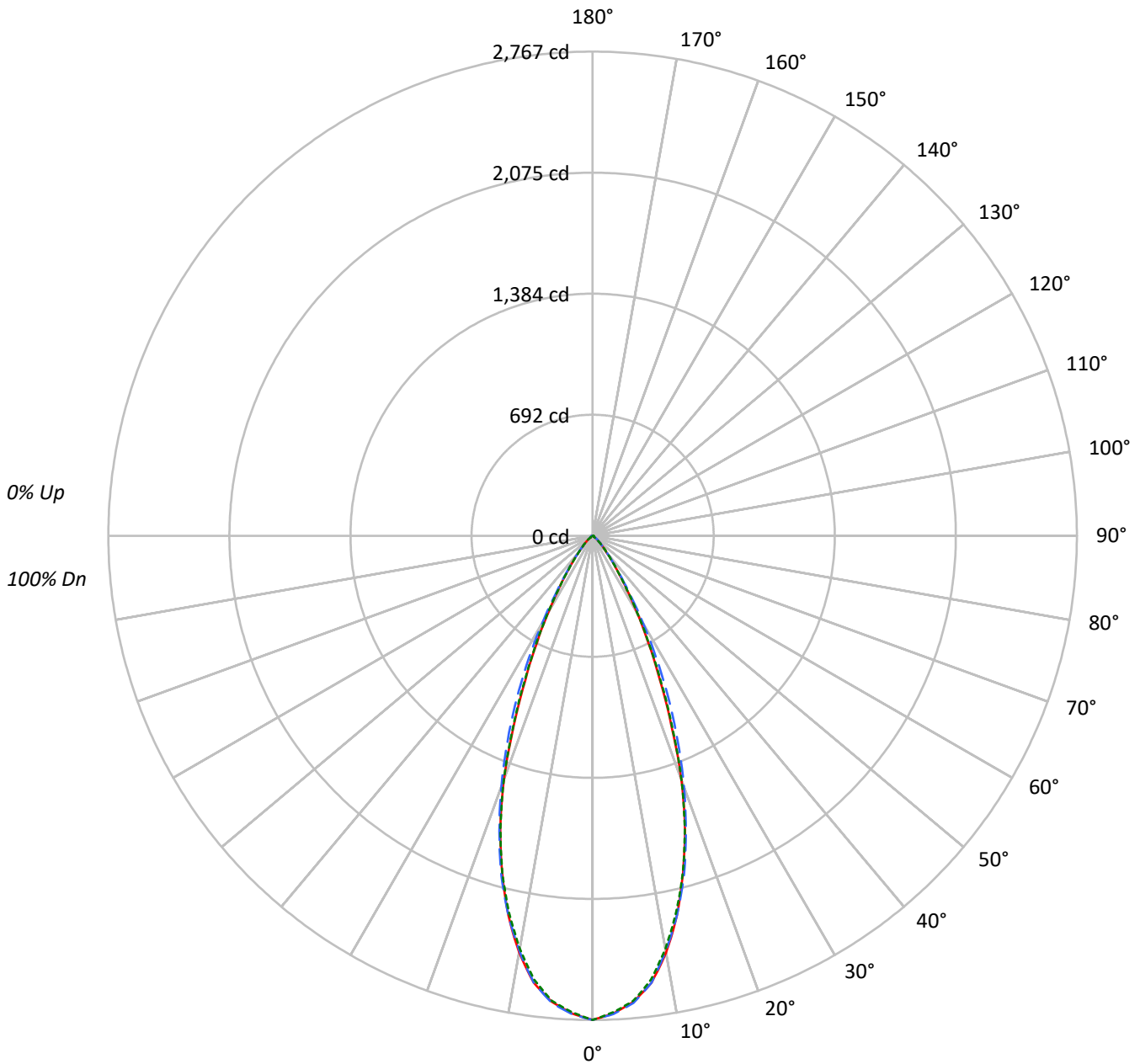
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284097

CATALOG NUMBER: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P284097

CATALOG NUMBER: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB

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	103	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°	1365033	1365033	1365033
5°	1324041	1327211	1321218
10°	1211953	1207094	1199830
15°	1019386	1028886	1017752
20°	779557	800243	778297
25°	495045	558137	504680
30°	287919	325062	292989
35°	152197	161894	152679
40°	80312	83983	80312
45°	44933	46608	45491
50°	21030	26557	21030
55°	7655	14537	8343
60°	8782	8782	8782
65°	9339	10390	9339
70°	11540	10386	11540
75°	10675	10675	10675
80°	11365	9092	11365
85°	9057	9057	9057



TEST NUMBER: P284097

CATALOG NUMBER: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	16.5
10°-20°	549.9	36.6
20°-30°	444.1	29.6
30°-40°	175.5	11.7
40°-50°	53.9	3.6
50°-60°	13.9	0.9
60°-70°	8.4	0.6
70°-80°	6.1	0.4
80°-90°	1.8	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°	1241.0	82.7
0°-40°	1416.5	94.4
0°-60°	1484.3	98.9
0°-90°	1500.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1500.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2767	2767	2767	2767	2767	
5°	2674	2678	2680	2674	2668	247
15°	1996	2002	2014	2006	1993	548
25°	909	953	1025	971	927	423
35°	253	260	269	261	254	169
45°	64	65	67	66	65	53
55°	9	12	17	12	10	11
65°	8	9	9	9	8	8
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P284097

CATALOG NUMBER: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2766.8	2766.8	2766.8	2766.8	2766.8
2.5°	2732.2	2733.8	2736.2	2733.0	2725.0
5°	2673.5	2678.3	2679.9	2674.3	2667.8
7.5°	2576.9	2571.3	2576.1	2566.4	2558.4
10°	2419.2	2411.9	2409.5	2395.0	2395.0
12.5°	2224.4	2222.0	2223.6	2216.4	2205.1
15°	1995.8	2001.5	2014.4	2006.3	1992.6
17.5°	1753.6	1761.7	1772.9	1770.5	1752.0
20°	1484.8	1508.2	1524.2	1509.0	1482.4
22.5°	1179.0	1228.9	1269.9	1237.7	1194.3
25°	909.4	952.9	1025.3	970.6	927.1
27.5°	689.7	721.1	787.1	733.2	703.4
30°	505.4	524.7	570.6	535.2	514.3
32.5°	361.3	375.0	394.3	373.4	363.0
35°	252.7	259.9	268.8	260.7	253.5
37.5°	177.9	180.3	186.7	180.3	177.1
40°	124.7	125.5	130.4	126.3	124.7
42.5°	90.1	90.1	92.5	90.9	90.1
45°	64.4	65.2	66.8	66.0	65.2
47.5°	45.9	47.5	47.5	48.3	45.1
50°	27.4	33.8	34.6	33.8	27.4
52.5°	14.5	20.1	24.9	20.1	14.5
55°	8.9	12.1	16.9	12.1	9.7
57.5°	8.9	8.9	11.3	9.7	8.9
60°	8.9	8.9	8.9	8.9	8.9
62.5°	8.9	8.9	8.9	8.9	8.9
65°	8.0	8.9	8.9	8.9	8.0
67.5°	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	7.2	8.0	8.0
72.5°	7.2	7.2	6.4	7.2	7.2
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.0	3.2	4.0	4.0
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)