

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: P284108

Luminaire Tested: **LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284108
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: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.6 lumens
Efficiency: N/A
Efficacy: 78.7 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

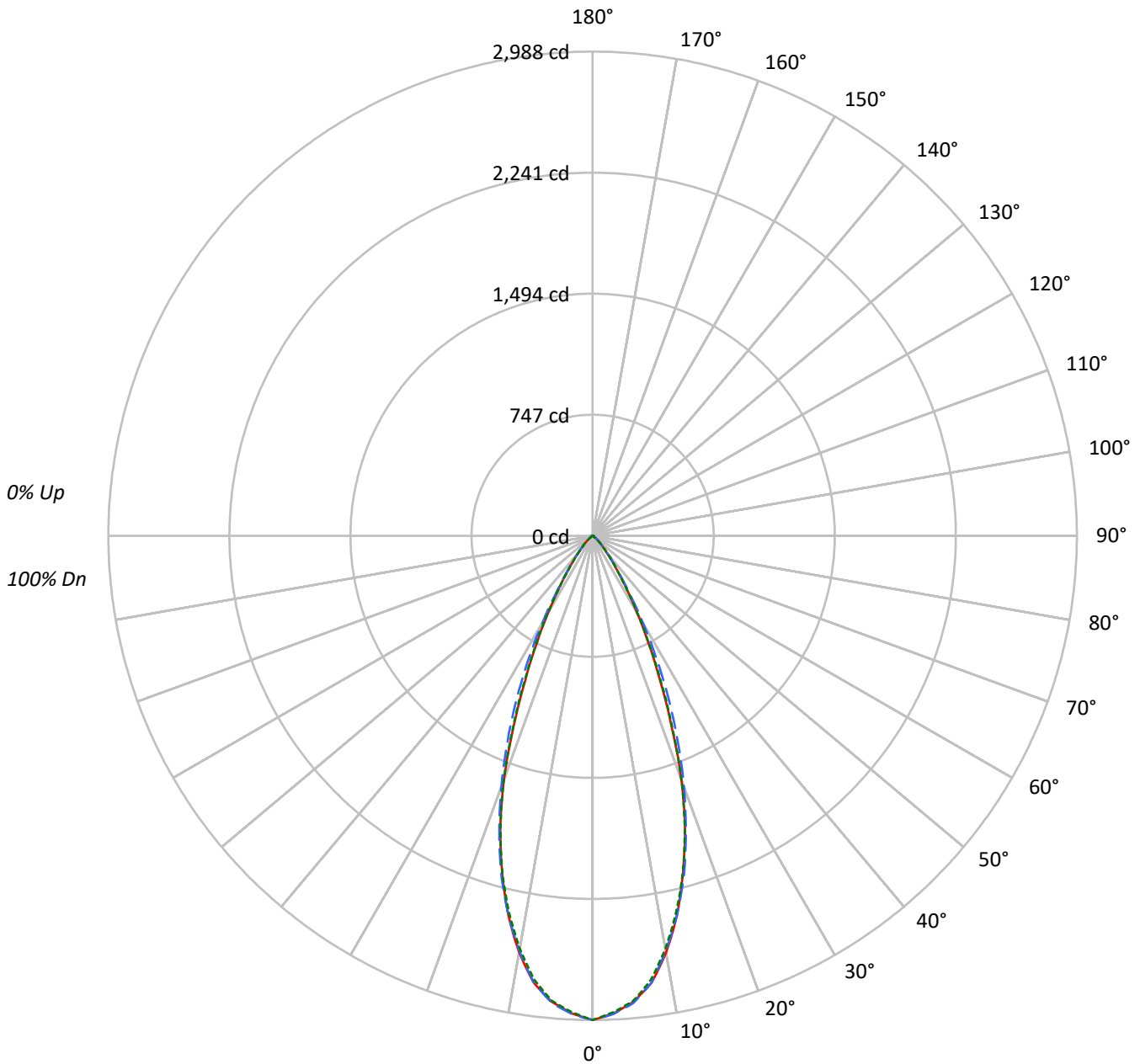
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284108

CATALOG NUMBER: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P284108

CATALOG NUMBER: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW

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°	1474116	1474116	1474116
5°	1429826	1433243	1426805
10°	1308741	1303531	1295716
15°	1100853	1111069	1099066
20°	841825	864191	840459
25°	534566	602720	545018
30°	310934	351040	316346
35°	164363	174843	164905
40°	86752	90681	86752
45°	48491	50306	49119
50°	22642	28706	22642
55°	8257	15741	8946
60°	9473	9473	9473
65°	10156	11207	10156
70°	12550	11251	12550
75°	11628	11628	11628
80°	12217	9944	12217
85°	9623	9623	9623



TEST NUMBER: P284108

CATALOG NUMBER: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	16.5
10°-20°	593.8	36.6
20°-30°	479.6	29.6
30°-40°	189.6	11.7
40°-50°	58.2	3.6
50°-60°	15.0	0.9
60°-70°	9.1	0.6
70°-80°	6.6	0.4
80°-90°	2.0	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°	1340.1	82.7
0°-40°	1529.7	94.4
0°-60°	1602.9	98.9
0°-90°	1620.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2887	2892	2894	2888	2881	267
15°	2155	2161	2175	2167	2152	592
25°	982	1029	1107	1048	1001	457
35°	273	281	290	282	274	183
45°	70	70	72	71	70	57
55°	10	13	18	13	10	12
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P284108

CATALOG NUMBER: LDA2B209050D010 EU2B20WFL559050 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2987.9	2987.9	2987.9	2987.9	2987.9
2.5°	2950.5	2952.2	2954.8	2951.4	2942.7
5°	2887.1	2892.3	2894.0	2887.9	2881.0
7.5°	2782.8	2776.7	2781.9	2771.5	2762.8
10°	2612.4	2604.6	2602.0	2586.4	2586.4
12.5°	2402.1	2399.5	2401.2	2393.4	2381.3
15°	2155.3	2161.4	2175.3	2166.6	2151.8
17.5°	1893.7	1902.4	1914.6	1912.0	1892.0
20°	1603.4	1628.6	1646.0	1629.5	1600.8
22.5°	1273.2	1327.1	1371.4	1336.6	1289.7
25°	982.0	1029.0	1107.2	1048.1	1001.2
27.5°	744.8	778.7	850.0	791.7	759.6
30°	545.8	566.6	616.2	577.9	555.3
32.5°	390.2	405.0	425.8	403.2	392.0
35°	272.9	280.7	290.3	281.6	273.8
37.5°	192.1	194.7	201.6	194.7	191.2
40°	134.7	135.6	140.8	136.4	134.7
42.5°	97.3	97.3	99.9	98.2	97.3
45°	69.5	70.4	72.1	71.3	70.4
47.5°	49.5	51.3	51.3	52.1	48.7
50°	29.5	36.5	37.4	36.5	29.5
52.5°	15.6	21.7	26.9	21.7	15.6
55°	9.6	13.0	18.3	13.0	10.4
57.5°	9.6	9.6	12.2	10.4	9.6
60°	9.6	9.6	9.6	9.6	9.6
62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.7	9.6	9.6	9.6	8.7
67.5°	8.7	8.7	8.7	8.7	8.7
70°	8.7	8.7	7.8	8.7	8.7
72.5°	7.8	7.8	7.0	7.8	7.8
75°	6.1	6.1	6.1	6.1	6.1
77.5°	5.2	5.2	5.2	5.2	5.2
80°	4.3	4.3	3.5	4.3	4.3
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.9	0.9	0.9	0.9	0.9
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)