

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: P284092

Luminaire Tested: **LDA2B209030D010 EU2B20WFL559030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284092
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: LDA2B209030D010 EU2B20WFL559030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1473.5 lumens
Efficiency: N/A
Efficacy: 71.5 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

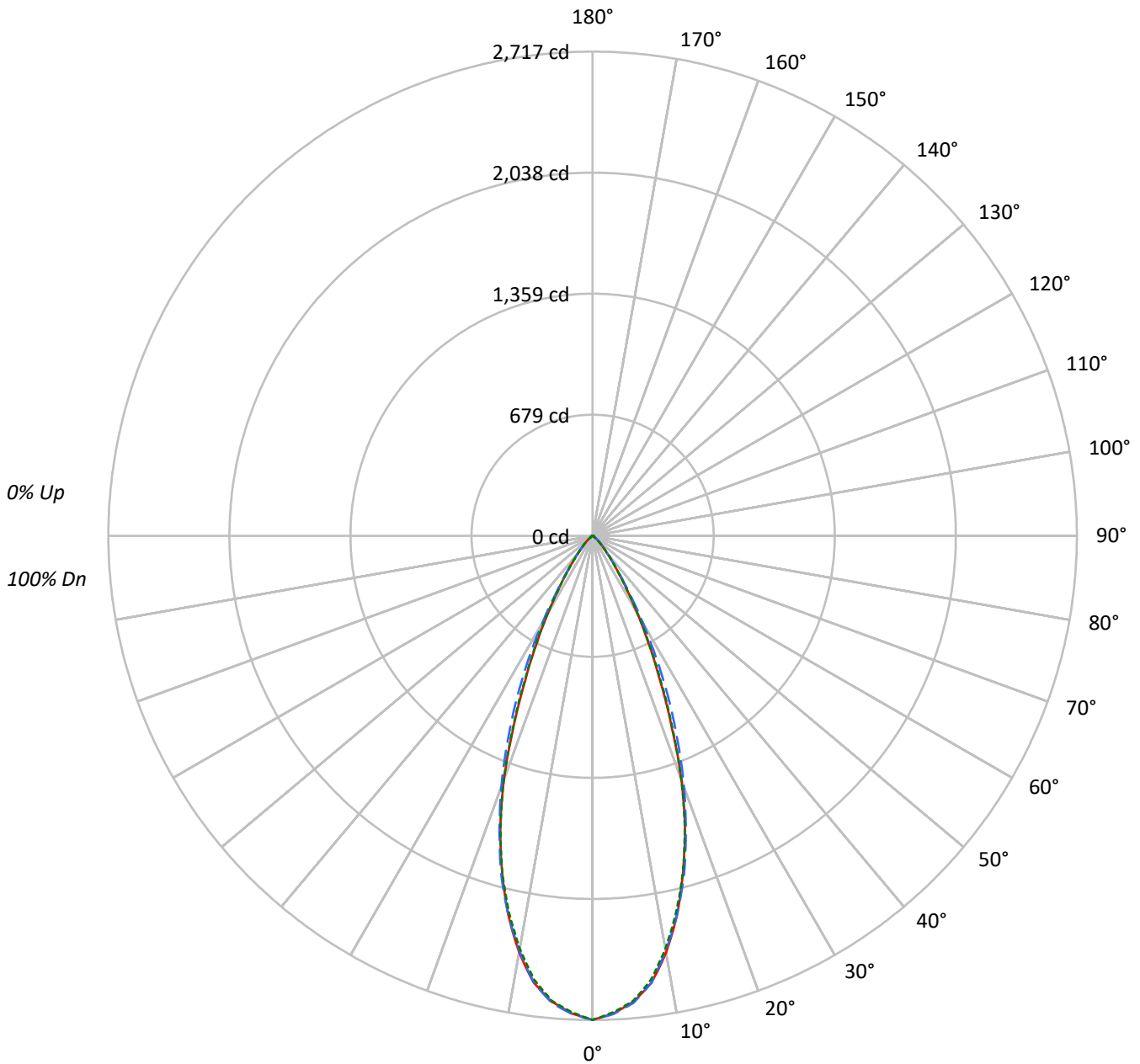
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1340267	1340267	1340267
5°	1299972	1303092	1297248
10°	1189910	1185201	1178037
15°	1000896	1010192	999262
20°	765433	785752	764173
25°	486063	548012	495535
30°	282678	319138	287634
35°	149427	158943	149908
40°	78895	82437	78895
45°	44096	45770	44654
50°	20647	26096	20647
55°	7483	14278	8171
60°	8584	8584	8584
65°	9222	10156	9222
70°	11396	10242	11396
75°	10484	10484	10484
80°	11365	9092	11365
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	16.5
10°-20°	539.9	36.6
20°-30°	436.1	29.6
30°-40°	172.3	11.7
40°-50°	52.9	3.6
50°-60°	13.7	0.9
60°-70°	8.3	0.6
70°-80°	6.0	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°	1218.5	82.7
0°-40°	1390.8	94.4
0°-60°	1457.4	98.9
0°-90°	1473.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1473.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2625	2630	2631	2626	2619	243
15°	1960	1965	1978	1970	1956	538
25°	893	936	1007	953	910	416
35°	248	255	264	256	249	166
45°	63	64	66	65	64	52
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.6	2716.6	2716.6	2716.6	2716.6
2.5°	2682.6	2684.2	2686.6	2683.4	2675.5
5°	2624.9	2629.7	2631.2	2625.7	2619.4
7.5°	2530.1	2524.6	2529.3	2519.8	2511.9
10°	2375.2	2368.1	2365.8	2351.5	2351.5
12.5°	2184.0	2181.6	2183.2	2176.1	2165.1
15°	1959.6	1965.1	1977.8	1969.9	1956.4
17.5°	1721.8	1729.7	1740.7	1738.4	1720.2
20°	1457.9	1480.8	1496.6	1481.6	1455.5
22.5°	1157.6	1206.6	1246.9	1215.3	1172.6
25°	892.9	935.6	1006.7	952.9	910.3
27.5°	677.2	708.0	772.8	719.8	690.6
30°	496.2	515.2	560.2	525.5	504.9
32.5°	354.8	368.2	387.2	366.6	356.4
35°	248.1	255.2	263.9	256.0	248.9
37.5°	174.6	177.0	183.3	177.0	173.8
40°	122.5	123.3	128.0	124.1	122.5
42.5°	88.5	88.5	90.9	89.3	88.5
45°	63.2	64.0	65.6	64.8	64.0
47.5°	45.0	46.6	46.6	47.4	44.2
50°	26.9	33.2	34.0	33.2	26.9
52.5°	14.2	19.8	24.5	19.8	14.2
55°	8.7	11.9	16.6	11.9	9.5
57.5°	8.7	8.7	11.1	9.5	8.7
60°	8.7	8.7	8.7	8.7	8.7
62.5°	8.7	8.7	8.7	8.7	8.7
65°	7.9	8.7	8.7	8.7	7.9
67.5°	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.1	7.9	7.9
72.5°	7.1	7.1	6.3	7.1	7.1
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.7	4.7	4.7	4.7	4.7
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



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







(END OF REPORT)