

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: P284085

Luminaire Tested: **LDA2B209027D010 EU2B20WFL559027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284085
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: LDA2B209027D010 EU2B20WFL559027 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: 1385.5 lumens
Efficiency: N/A
Efficacy: 67.3 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

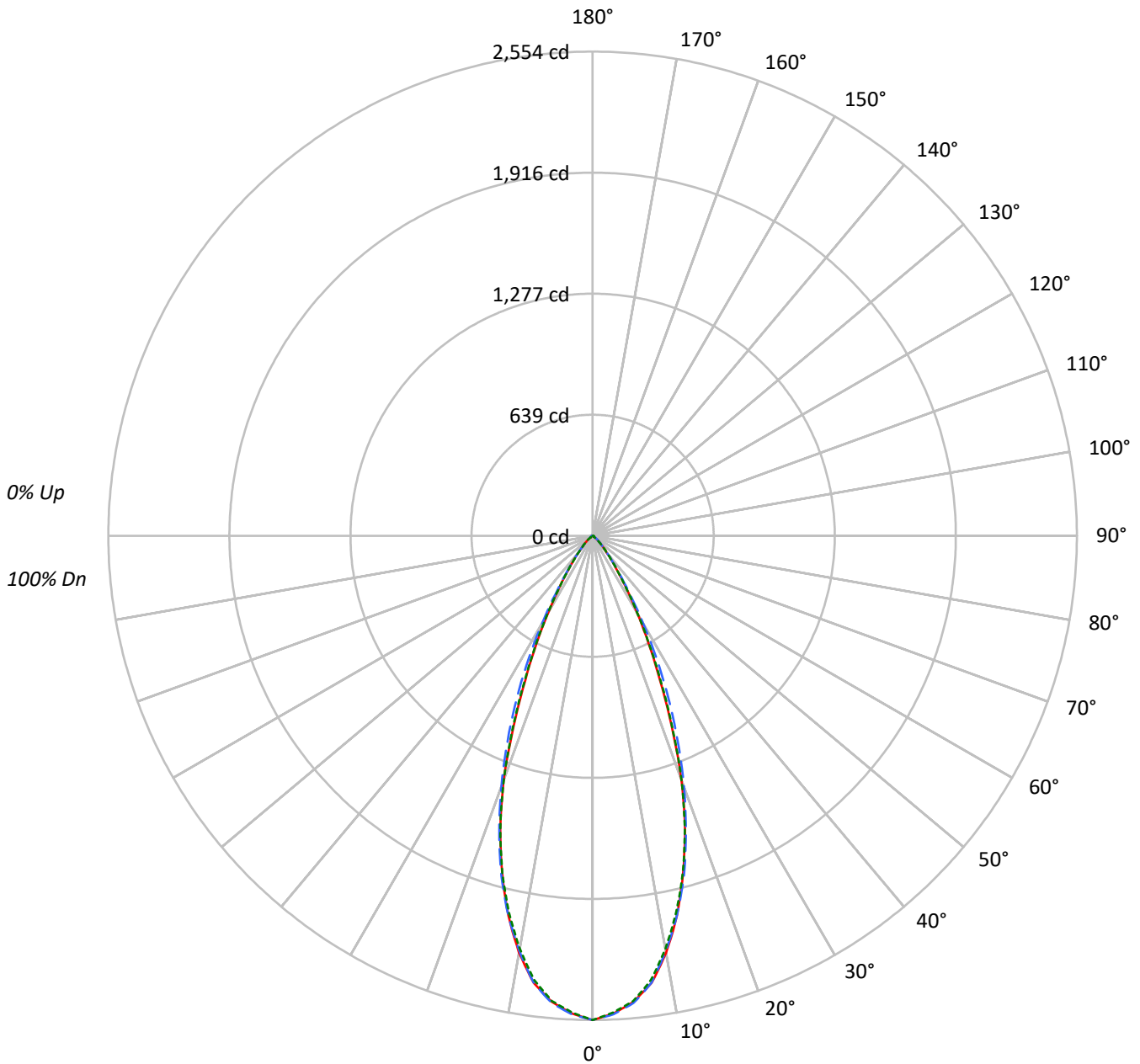
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89	94	92	90	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	90	87	85	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	86	83	81	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	82	79	76	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	78	75	72	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	76	72	69	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	72	68	65	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	69	65	62	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	66	62	60	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1260293	1260293	1260293
5°	1222417	1225388	1219841
10°	1118923	1114464	1107751
15°	941188	949922	939656
20°	719756	738867	718549
25°	457048	515295	465976
30°	265815	300110	270486
35°	140513	149487	140995
40°	74193	77542	74193
45°	41445	43049	42003
50°	19419	24484	19419
55°	7053	13418	7655
60°	8091	8091	8091
65°	8639	9573	8639
70°	10674	9665	10674
75°	9912	9912	9912
80°	10512	8523	10512
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	16.5
10°-20°	507.7	36.6
20°-30°	410.0	29.6
30°-40°	162.1	11.7
40°-50°	49.8	3.6
50°-60°	12.8	0.9
60°-70°	7.8	0.6
70°-80°	5.7	0.4
80°-90°	1.7	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°	1145.8	82.7
0°-40°	1307.8	94.4
0°-60°	1370.4	98.9
0°-90°	1385.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1385.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2468	2473	2474	2469	2463	228
15°	1843	1848	1860	1852	1840	506
25°	840	880	947	896	856	391
35°	233	240	248	241	234	156
45°	59	60	62	61	60	49
55°	8	11	16	11	9	10
65°	7	8	8	8	7	8
75°	5	5	5	5	5	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°	2554.5	2554.5	2554.5	2554.5	2554.5
2.5°	2522.6	2524.0	2526.3	2523.3	2515.9
5°	2468.3	2472.8	2474.3	2469.1	2463.1
7.5°	2379.2	2374.0	2378.4	2369.5	2362.1
10°	2233.5	2226.8	2224.6	2211.2	2211.2
12.5°	2053.7	2051.5	2053.0	2046.3	2035.9
15°	1842.7	1847.9	1859.8	1852.4	1839.7
17.5°	1619.0	1626.5	1636.9	1634.6	1617.6
20°	1370.9	1392.4	1407.3	1393.2	1368.6
22.5°	1088.5	1134.6	1172.5	1142.8	1102.6
25°	839.6	879.7	946.6	896.1	856.0
27.5°	636.8	665.7	726.7	676.9	649.4
30°	466.6	484.5	526.8	494.1	474.8
32.5°	333.6	346.2	364.1	344.8	335.1
35°	233.3	240.0	248.2	240.7	234.1
37.5°	164.2	166.4	172.4	166.4	163.5
40°	115.2	115.9	120.4	116.7	115.2
42.5°	83.2	83.2	85.4	84.0	83.2
45°	59.4	60.2	61.7	60.9	60.2
47.5°	42.4	43.8	43.8	44.6	41.6
50°	25.3	31.2	31.9	31.2	25.3
52.5°	13.4	18.6	23.0	18.6	13.4
55°	8.2	11.1	15.6	11.1	8.9
57.5°	8.2	8.2	10.4	8.9	8.2
60°	8.2	8.2	8.2	8.2	8.2
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.4	8.2	8.2	8.2	7.4
67.5°	7.4	7.4	7.4	7.4	7.4
70°	7.4	7.4	6.7	7.4	7.4
72.5°	6.7	6.7	5.9	6.7	6.7
75°	5.2	5.2	5.2	5.2	5.2
77.5°	4.5	4.5	4.5	4.5	4.5
80°	3.7	3.7	3.0	3.7	3.7
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)