

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: P284078

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284078
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: LDA2B209024D010 EU2B20WFL559024 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: 1323.5 lumens
Efficiency: N/A
Efficacy: 64.2 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

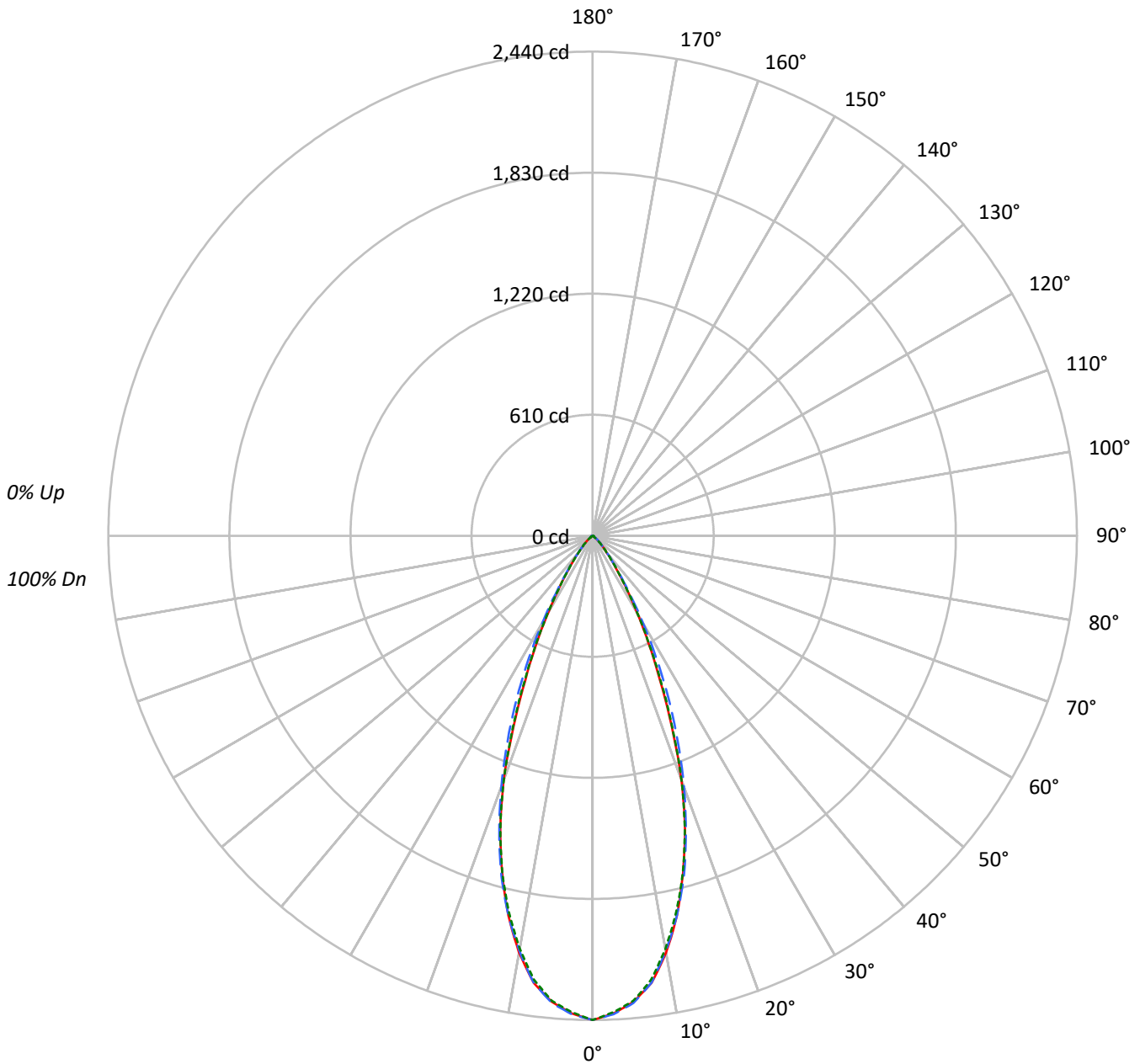
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	1203852	1203852	1203852
5°	1167692	1170515	1165216
10°	1068825	1064567	1058155
15°	899050	907375	897620
20°	687520	705791	686417
25°	436580	492214	445072
30°	253909	286666	258352
35°	134249	142801	134671
40°	70844	74064	70844
45°	39630	41096	40119
50°	18498	23410	18498
55°	6709	12816	7311
60°	7696	7696	7696
65°	8288	9106	8288
70°	10242	9232	10242
75°	9531	9531	9531
80°	9944	7955	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	16.5
10°-20°	485.0	36.6
20°-30°	391.7	29.6
30°-40°	154.8	11.7
40°-50°	47.5	3.6
50°-60°	12.2	0.9
60°-70°	7.4	0.6
70°-80°	5.4	0.4
80°-90°	1.6	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°	1094.5	82.7
0°-40°	1249.3	94.4
0°-60°	1309.0	98.9
0°-90°	1323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2358	2362	2364	2358	2353	218
15°	1760	1765	1776	1769	1757	483
25°	802	840	904	856	818	373
35°	223	229	237	230	224	149
45°	57	58	59	58	58	46
55°	8	11	15	11	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2440.1	2440.1	2440.1	2440.1	2440.1
2.5°	2409.6	2411.0	2413.2	2410.3	2403.2
5°	2357.8	2362.1	2363.5	2358.5	2352.8
7.5°	2272.6	2267.7	2271.9	2263.4	2256.3
10°	2133.5	2127.1	2125.0	2112.2	2112.2
12.5°	1961.8	1959.6	1961.0	1954.7	1944.7
15°	1760.2	1765.2	1776.5	1769.4	1757.4
17.5°	1546.6	1553.7	1563.6	1561.5	1545.1
20°	1309.5	1330.1	1344.3	1330.8	1307.4
22.5°	1039.8	1083.8	1120.0	1091.6	1053.3
25°	802.0	840.3	904.2	856.0	817.6
27.5°	608.3	635.9	694.1	646.6	620.3
30°	445.7	462.8	503.2	472.0	453.5
32.5°	318.7	330.7	347.8	329.3	320.1
35°	222.9	229.3	237.1	230.0	223.6
37.5°	156.9	159.0	164.7	159.0	156.1
40°	110.0	110.7	115.0	111.4	110.0
42.5°	79.5	79.5	81.6	80.2	79.5
45°	56.8	57.5	58.9	58.2	57.5
47.5°	40.5	41.9	41.9	42.6	39.7
50°	24.1	29.8	30.5	29.8	24.1
52.5°	12.8	17.7	22.0	17.7	12.8
55°	7.8	10.6	14.9	10.6	8.5
57.5°	7.8	7.8	9.9	8.5	7.8
60°	7.8	7.8	7.8	7.8	7.8
62.5°	7.8	7.8	7.8	7.8	7.8
65°	7.1	7.8	7.8	7.8	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.4	7.1	7.1
72.5°	6.4	6.4	5.7	6.4	6.4
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.5	3.5	2.8	3.5	3.5
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
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)