

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: P284079

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284079
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 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: 1285.9 lumens
Efficiency: N/A
Efficacy: 62.4 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

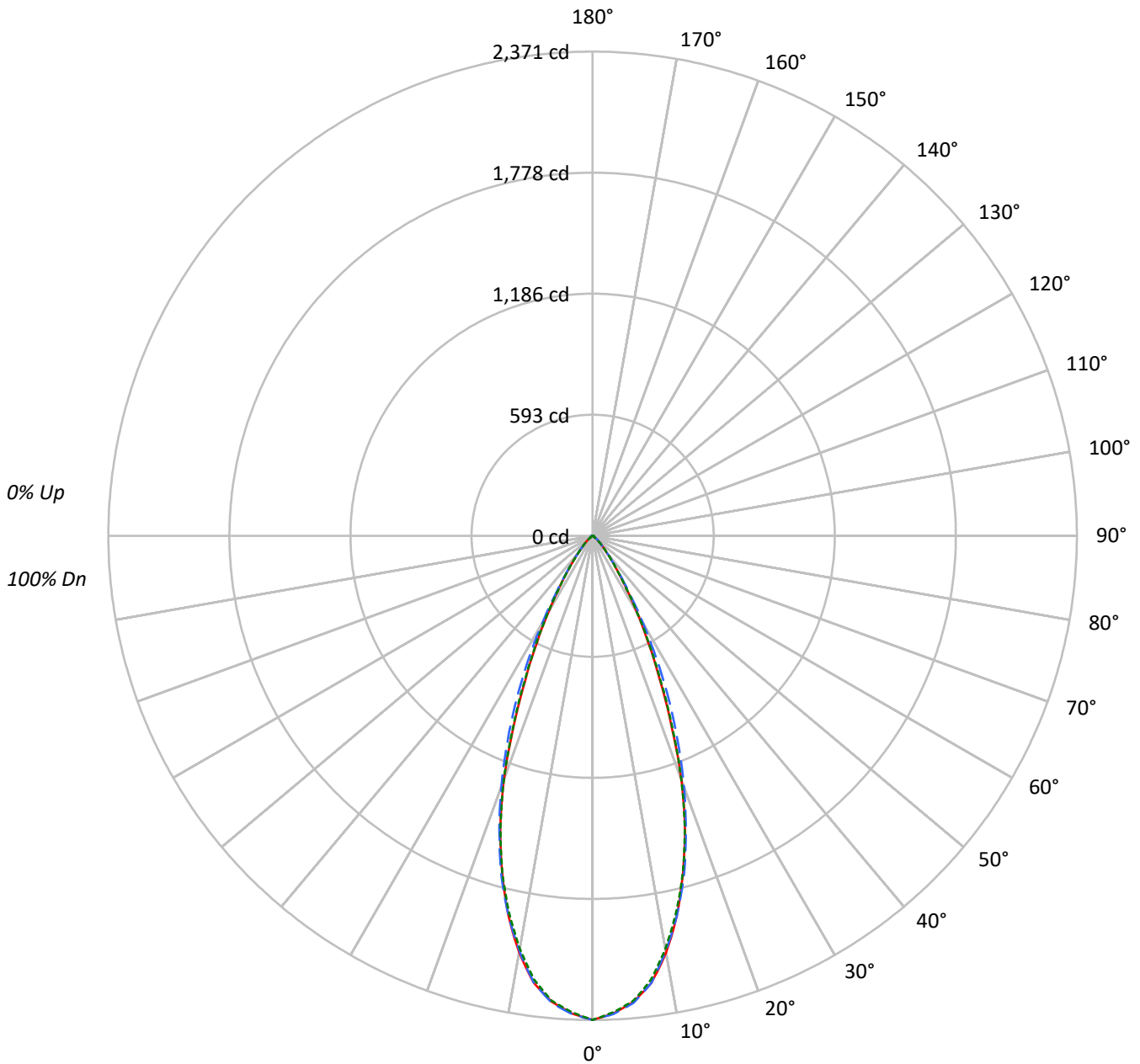
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1169662	1169662	1169662
5°	1134510	1137234	1132133
10°	1038466	1034308	1028096
15°	873512	881582	872081
20°	667989	685735	666886
25°	424169	478224	432443
30°	246731	278519	251003
35°	130394	138706	130816
40°	68848	71939	68848
45°	38514	39910	39002
50°	17960	22796	17960
55°	6537	12472	7139
60°	7499	7499	7499
65°	8055	8872	8055
70°	9953	8943	9953
75°	9150	9150	9150
80°	9660	7955	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	16.5
10°-20°	471.2	36.6
20°-30°	380.5	29.6
30°-40°	150.4	11.7
40°-50°	46.2	3.6
50°-60°	11.9	0.9
60°-70°	7.2	0.6
70°-80°	5.3	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°	1063.4	82.7
0°-40°	1213.8	94.4
0°-60°	1271.9	98.9
0°-90°	1285.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2291	2295	2296	2292	2286	212
15°	1710	1715	1726	1719	1707	470
25°	779	816	878	832	794	363
35°	216	223	230	223	217	145
45°	55	56	57	56	56	45
55°	8	10	14	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
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°	2370.8	2370.8	2370.8	2370.8	2370.8
2.5°	2341.1	2342.5	2344.6	2341.8	2334.9
5°	2290.8	2294.9	2296.3	2291.5	2286.0
7.5°	2208.0	2203.2	2207.4	2199.1	2192.2
10°	2072.9	2066.7	2064.6	2052.2	2052.2
12.5°	1906.0	1903.9	1905.3	1899.1	1889.5
15°	1710.2	1715.0	1726.0	1719.1	1707.4
17.5°	1502.6	1509.5	1519.2	1517.1	1501.2
20°	1272.3	1292.3	1306.1	1293.0	1270.2
22.5°	1010.2	1053.0	1088.2	1060.6	1023.3
25°	779.2	816.5	878.5	831.6	794.4
27.5°	591.0	617.9	674.4	628.2	602.7
30°	433.1	449.6	488.9	458.6	440.6
32.5°	309.6	321.3	337.9	320.0	311.0
35°	216.5	222.7	230.3	223.4	217.2
37.5°	152.4	154.5	160.0	154.5	151.7
40°	106.9	107.6	111.7	108.3	106.9
42.5°	77.2	77.2	79.3	77.9	77.2
45°	55.2	55.9	57.2	56.5	55.9
47.5°	39.3	40.7	40.7	41.4	38.6
50°	23.4	29.0	29.7	29.0	23.4
52.5°	12.4	17.2	21.4	17.2	12.4
55°	7.6	10.3	14.5	10.3	8.3
57.5°	7.6	7.6	9.7	8.3	7.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.9	7.6	7.6	7.6	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.5	6.2	6.2
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	2.8	3.4	3.4
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)