

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: P284116

Luminaire Tested: **LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284116
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: LDA2B209727D010 EU2B20WFL559727 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: 1270.8 lumens
Efficiency: N/A
Efficacy: 61.7 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

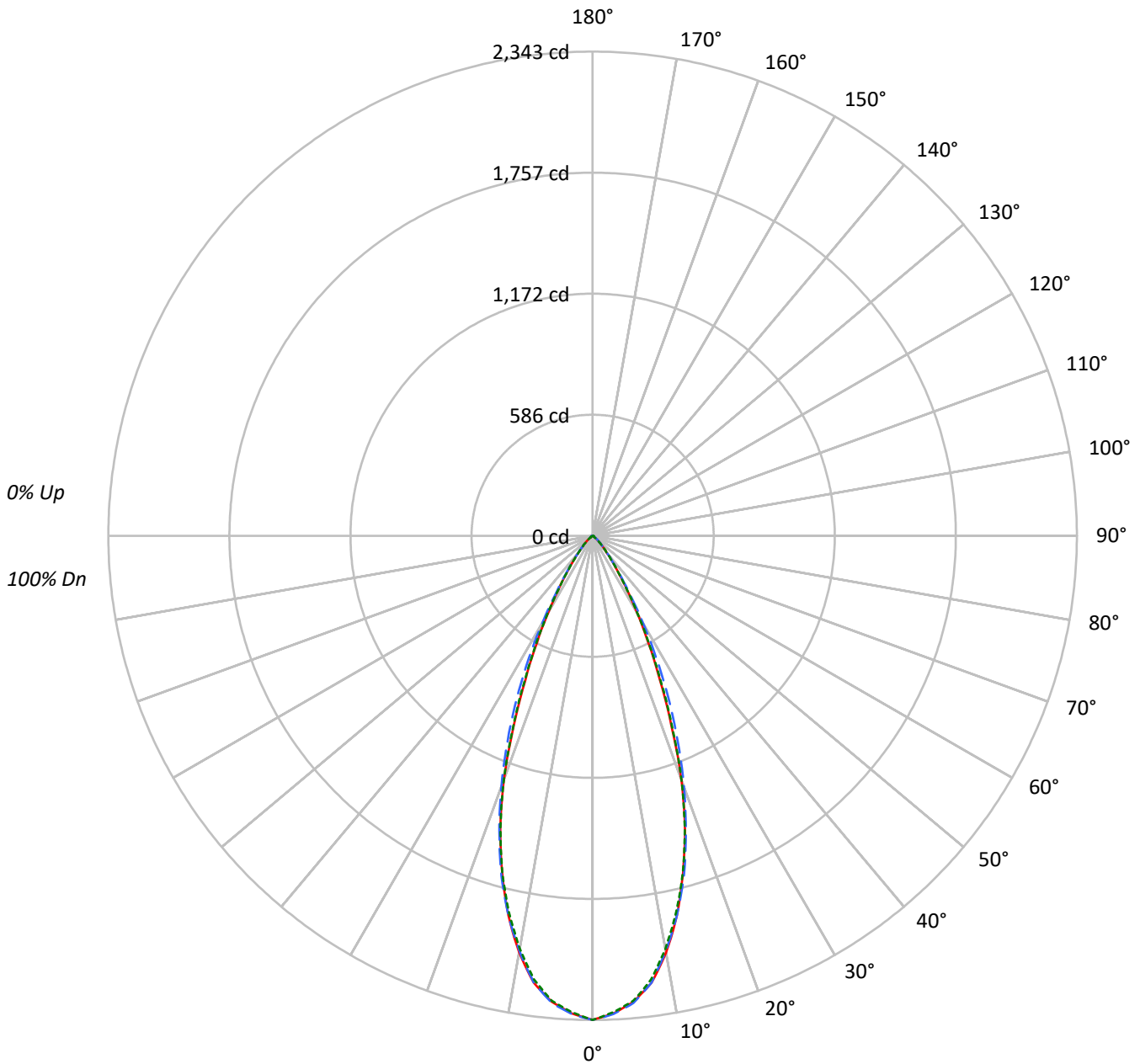
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1155897	1155897	1155897
5°	1121139	1123863	1118811
10°	1026243	1022135	1015973
15°	863194	871213	861815
20°	660113	677649	659063
25°	419215	472617	427326
30°	243825	275272	248098
35°	128889	137080	129310
40°	68010	71102	68010
45°	38026	39491	38514
50°	17807	22489	17807
55°	6451	12300	7053
60°	7400	7400	7400
65°	7938	8755	7938
70°	9809	8799	9809
75°	9150	9150	9150
80°	9660	7671	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	16.5
10°-20°	465.7	36.6
20°-30°	376.1	29.6
30°-40°	148.6	11.7
40°-50°	45.6	3.6
50°-60°	11.8	0.9
60°-70°	7.1	0.6
70°-80°	5.2	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°	1050.9	82.7
0°-40°	1199.5	94.4
0°-60°	1256.9	98.9
0°-90°	1270.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2264	2268	2269	2264	2259	210
15°	1690	1695	1706	1699	1687	464
25°	770	807	868	822	785	358
35°	214	220	228	221	215	143
45°	54	55	57	56	55	44
55°	8	10	14	10	8	9
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°	2342.9	2342.9	2342.9	2342.9	2342.9
2.5°	2313.6	2314.9	2317.0	2314.3	2307.4
5°	2263.8	2267.9	2269.3	2264.5	2259.1
7.5°	2182.1	2177.3	2181.4	2173.2	2166.4
10°	2048.5	2042.4	2040.3	2028.0	2028.0
12.5°	1883.6	1881.5	1882.9	1876.8	1867.2
15°	1690.0	1694.8	1705.7	1698.9	1687.3
17.5°	1484.9	1491.7	1501.3	1499.2	1483.6
20°	1257.3	1277.1	1290.7	1277.8	1255.3
22.5°	998.3	1040.6	1075.4	1048.1	1011.3
25°	770.1	806.9	868.2	821.8	785.0
27.5°	584.0	610.6	666.5	620.8	595.6
30°	428.0	444.3	483.2	453.2	435.5
32.5°	306.0	317.6	333.9	316.2	307.3
35°	214.0	220.1	227.6	220.8	214.7
37.5°	150.6	152.6	158.1	152.6	149.9
40°	105.6	106.3	110.4	107.0	105.6
42.5°	76.3	76.3	78.4	77.0	76.3
45°	54.5	55.2	56.6	55.9	55.2
47.5°	38.8	40.2	40.2	40.9	38.2
50°	23.2	28.6	29.3	28.6	23.2
52.5°	12.3	17.0	21.1	17.0	12.3
55°	7.5	10.2	14.3	10.2	8.2
57.5°	7.5	7.5	9.5	8.2	7.5
60°	7.5	7.5	7.5	7.5	7.5
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.8	7.5	7.5	7.5	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	6.8	6.8	6.1	6.8	6.8
72.5°	6.1	6.1	5.5	6.1	6.1
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	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
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)