

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: P284125

Luminaire Tested: **LDA2B209730D010 EU2B20WFL559730 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284125
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: LDA2B209730D010 EU2B20WFL559730 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1252.8 lumens
Efficiency: N/A
Efficacy: 60.8 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

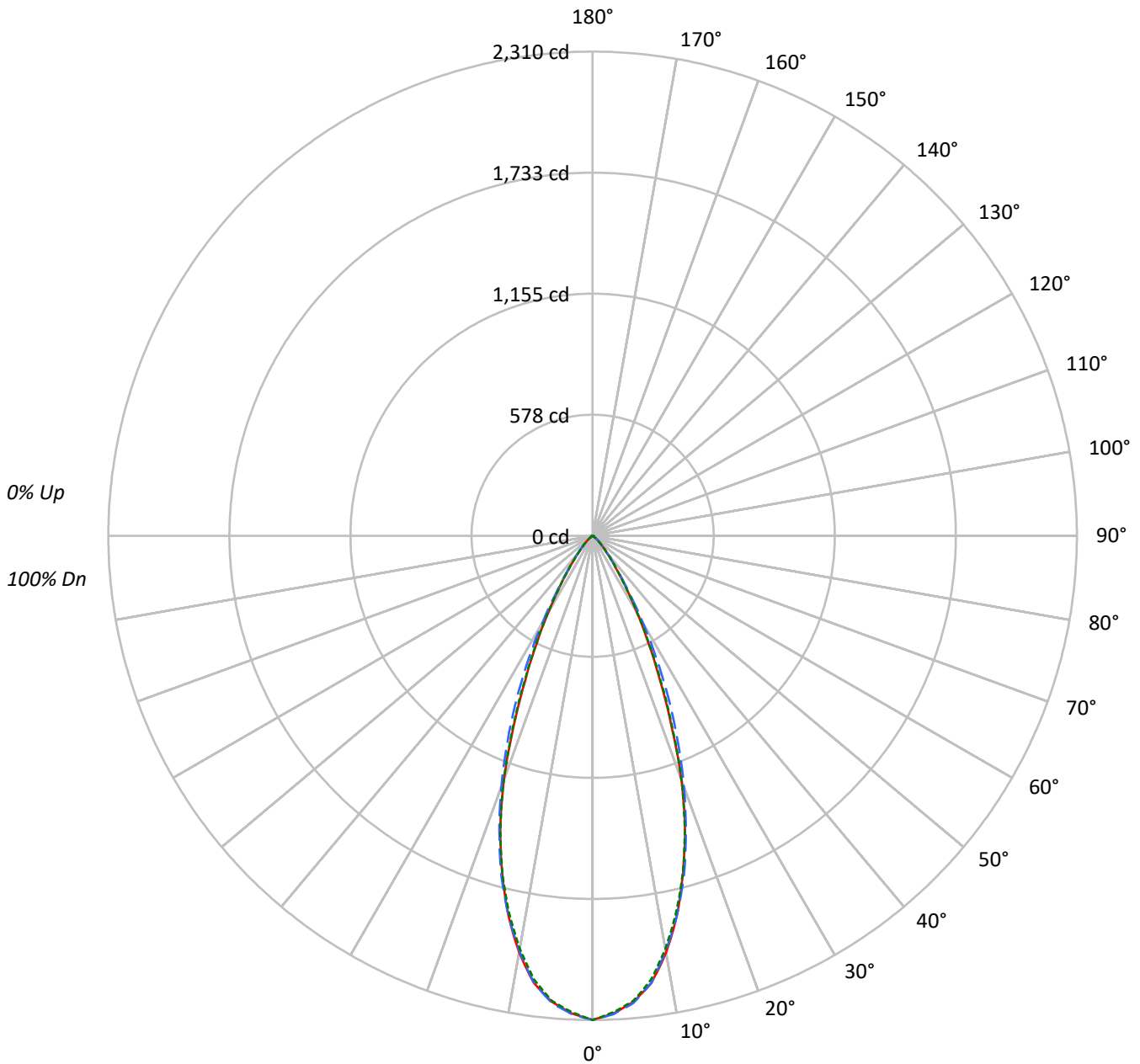
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1139616	1139616	1139616
5°	1105390	1108015	1103062
10°	1011815	1007757	1001695
15°	851038	858955	849710
20°	650821	668094	649771
25°	413282	465976	421338
30°	240350	271398	244566
35°	127082	135152	127443
40°	67044	70071	67044
45°	37468	38933	37956
50°	17500	22182	17500
55°	6365	12128	6967
60°	7302	7302	7302
65°	7822	8639	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9660	7671	9660
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	16.5
10°-20°	459.1	36.6
20°-30°	370.8	29.6
30°-40°	146.5	11.7
40°-50°	45.0	3.6
50°-60°	11.6	0.9
60°-70°	7.0	0.6
70°-80°	5.1	0.4
80°-90°	1.5	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°	1036.1	82.7
0°-40°	1182.6	94.4
0°-60°	1239.2	98.9
0°-90°	1252.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2232	2236	2237	2233	2227	207
15°	1666	1671	1682	1675	1664	458
25°	759	796	856	810	774	353
35°	211	217	224	218	212	141
45°	54	54	56	55	54	44
55°	7	10	14	10	8	9
65°	7	7	7	7	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°	2309.9	2309.9	2309.9	2309.9	2309.9
2.5°	2281.0	2282.4	2284.4	2281.7	2275.0
5°	2232.0	2236.0	2237.3	2232.6	2227.3
7.5°	2151.3	2146.6	2150.7	2142.6	2135.9
10°	2019.7	2013.6	2011.6	1999.5	1999.5
12.5°	1857.1	1855.0	1856.4	1850.3	1840.9
15°	1666.2	1671.0	1681.7	1675.0	1663.6
17.5°	1464.0	1470.7	1480.1	1478.1	1462.7
20°	1239.6	1259.1	1272.5	1259.8	1237.6
22.5°	984.3	1026.0	1060.2	1033.3	997.1
25°	759.2	795.5	856.0	810.3	774.0
27.5°	575.8	602.0	657.1	612.1	587.2
30°	421.9	438.1	476.4	446.8	429.3
32.5°	301.7	313.1	329.2	311.7	303.0
35°	211.0	217.0	224.4	217.7	211.6
37.5°	148.5	150.5	155.9	150.5	147.8
40°	104.1	104.8	108.8	105.5	104.1
42.5°	75.2	75.2	77.3	75.9	75.2
45°	53.7	54.4	55.8	55.1	54.4
47.5°	38.3	39.6	39.6	40.3	37.6
50°	22.8	28.2	28.9	28.2	22.8
52.5°	12.1	16.8	20.8	16.8	12.1
55°	7.4	10.1	14.1	10.1	8.1
57.5°	7.4	7.4	9.4	8.1	7.4
60°	7.4	7.4	7.4	7.4	7.4
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.7	7.4	7.4	7.4	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.4	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.4	3.4	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
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)