

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: P284071

Luminaire Tested: **LDA2B208040D010 EU2B20WFL558040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284071
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: LDA2B208040D010 EU2B20WFL558040 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: 1781.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

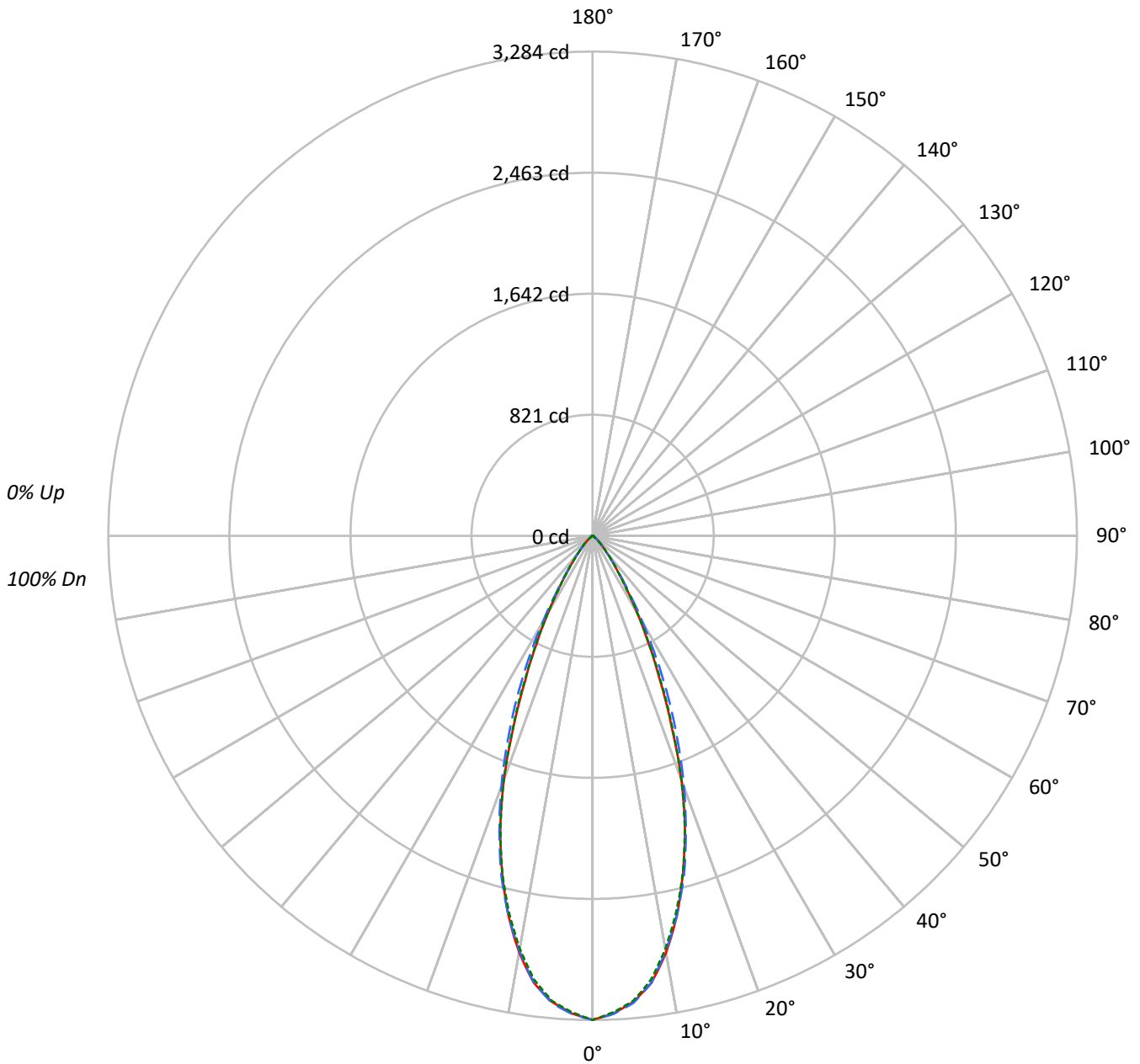
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	89	89	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	84	84	84	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	79	79	79	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	75	75	75	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	71	71	71	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	67	67	67	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	64	64	64	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	61	61	61	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	58	58	58	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1620003	1620003	1620003
5°	1571318	1575081	1567999
10°	1438293	1432531	1423915
15°	1209800	1221037	1207859
20°	925146	949717	923676
25°	587478	662383	598964
30°	341697	385791	347679
35°	180625	192128	181227
40°	95318	99633	95318
45°	53306	55329	54003
50°	24945	31546	24945
55°	9032	17289	9892
60°	10361	10361	10361
65°	11207	12258	11207
70°	13848	12405	13848
75°	12772	12772	12772
80°	13638	10796	13638
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	16.5
10°-20°	652.6	36.6
20°-30°	527.1	29.6
30°-40°	208.3	11.7
40°-50°	64.0	3.6
50°-60°	16.5	0.9
60°-70°	10.0	0.6
70°-80°	7.3	0.4
80°-90°	2.2	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°	1472.8	82.7
0°-40°	1681.1	94.4
0°-60°	1761.5	98.9
0°-90°	1781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3284	3284	3284	3284	3284	
5°	3173	3178	3180	3174	3166	294
15°	2369	2375	2391	2381	2365	651
25°	1079	1131	1217	1152	1100	502
35°	300	308	319	309	301	201
45°	76	77	79	78	77	62
55°	10	14	20	14	12	13
65°	10	10	10	10	10	10
75°	7	7	7	7	7	7
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°	3283.6	3283.6	3283.6	3283.6	3283.6
2.5°	3242.5	3244.4	3247.3	3243.5	3233.9
5°	3172.8	3178.5	3180.4	3173.7	3166.1
7.5°	3058.2	3051.5	3057.2	3045.8	3036.2
10°	2871.0	2862.4	2859.5	2842.3	2842.3
12.5°	2639.8	2637.0	2638.9	2630.3	2616.9
15°	2368.6	2375.3	2390.6	2381.0	2364.8
17.5°	2081.1	2090.7	2104.0	2101.2	2079.2
20°	1762.1	1789.8	1808.9	1790.8	1759.3
22.5°	1399.2	1458.4	1507.1	1468.9	1417.3
25°	1079.2	1130.8	1216.8	1151.8	1100.3
27.5°	818.5	855.8	934.1	870.1	834.7
30°	599.8	622.7	677.2	635.1	610.3
32.5°	428.8	445.1	468.0	443.2	430.7
35°	299.9	308.5	319.0	309.4	300.9
37.5°	211.1	213.9	221.6	213.9	210.1
40°	148.0	149.0	154.7	149.9	148.0
42.5°	107.0	107.0	109.8	107.9	107.0
45°	76.4	77.4	79.3	78.3	77.4
47.5°	54.4	56.3	56.3	57.3	53.5
50°	32.5	40.1	41.1	40.1	32.5
52.5°	17.2	23.9	29.6	23.9	17.2
55°	10.5	14.3	20.1	14.3	11.5
57.5°	10.5	10.5	13.4	11.5	10.5
60°	10.5	10.5	10.5	10.5	10.5
62.5°	10.5	10.5	10.5	10.5	10.5
65°	9.6	10.5	10.5	10.5	9.6
67.5°	9.6	9.6	9.6	9.6	9.6
70°	9.6	9.6	8.6	9.6	9.6
72.5°	8.6	8.6	7.6	8.6	8.6
75°	6.7	6.7	6.7	6.7	6.7
77.5°	5.7	5.7	5.7	5.7	5.7
80°	4.8	4.8	3.8	4.8	4.8
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)