

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: P284065

Luminaire Tested: **LDA2B208035D010 EU2B20WFL558035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284065
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: LDA2B208035D010 EU2B20WFL558035 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: 1711.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

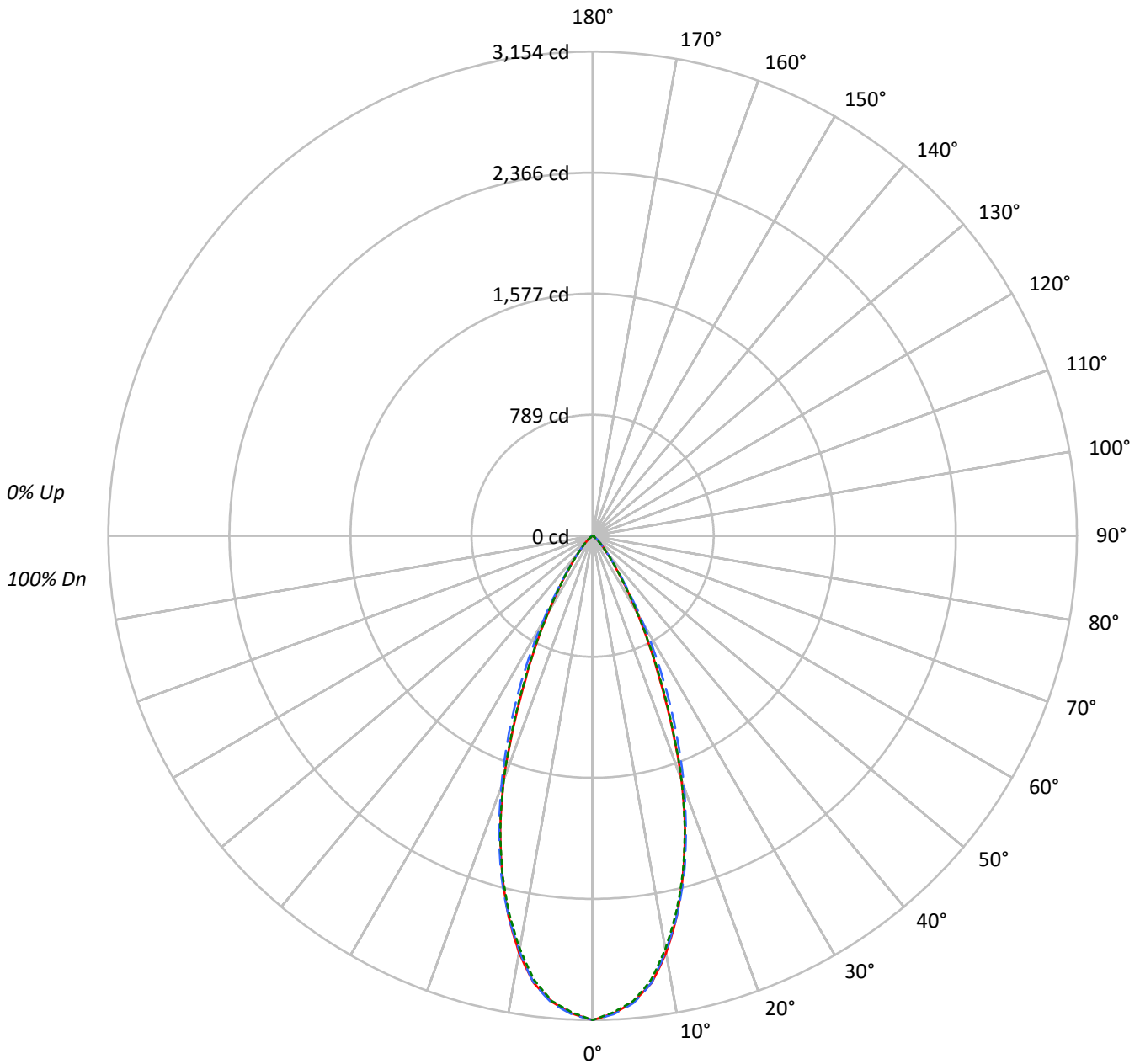
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1556310	1556310	1556310
5°	1509560	1513176	1506391
10°	1381783	1376222	1367956
15°	1162247	1173025	1160409
20°	888814	912388	887344
25°	564397	636362	575393
30°	328253	370580	334006
35°	173518	184600	174060
40°	91582	95704	91582
45°	51213	53166	51841
50°	23947	30318	23947
55°	8688	16601	9462
60°	9966	9966	9966
65°	10740	11791	10740
70°	13271	11973	13271
75°	12200	12200	12200
80°	13069	10512	13069
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	16.5
10°-20°	627.0	36.6
20°-30°	506.3	29.6
30°-40°	200.1	11.7
40°-50°	61.4	3.6
50°-60°	15.8	0.9
60°-70°	9.6	0.6
70°-80°	7.0	0.4
80°-90°	2.1	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°	1414.9	82.7
0°-40°	1615.0	94.4
0°-60°	1692.3	98.9
0°-90°	1711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3154	3154	3154	3154	3154	
5°	3048	3054	3055	3049	3042	282
15°	2276	2282	2297	2288	2272	625
25°	1037	1086	1169	1107	1057	483
35°	288	296	306	297	289	193
45°	73	74	76	75	74	60
55°	10	14	19	14	11	13
65°	9	10	10	10	9	9
75°	6	6	6	6	6	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°	3154.5	3154.5	3154.5	3154.5	3154.5
2.5°	3115.1	3116.9	3119.7	3116.0	3106.8
5°	3048.1	3053.6	3055.4	3049.0	3041.7
7.5°	2938.0	2931.6	2937.1	2926.1	2916.9
10°	2758.2	2749.9	2747.1	2730.6	2730.6
12.5°	2536.1	2533.4	2535.2	2526.9	2514.1
15°	2275.5	2282.0	2296.6	2287.5	2271.9
17.5°	1999.3	2008.5	2021.4	2018.6	1997.5
20°	1692.9	1719.5	1737.8	1720.4	1690.1
22.5°	1344.2	1401.1	1447.9	1411.2	1361.6
25°	1036.8	1086.4	1169.0	1106.6	1057.0
27.5°	786.3	822.1	897.4	835.9	801.9
30°	576.2	598.2	650.5	610.2	586.3
32.5°	412.0	427.6	449.6	425.7	413.8
35°	288.1	296.4	306.5	297.3	289.0
37.5°	202.8	205.5	212.9	205.5	201.9
40°	142.2	143.1	148.6	144.1	142.2
42.5°	102.8	102.8	105.5	103.7	102.8
45°	73.4	74.3	76.2	75.2	74.3
47.5°	52.3	54.1	54.1	55.1	51.4
50°	31.2	38.5	39.5	38.5	31.2
52.5°	16.5	22.9	28.4	22.9	16.5
55°	10.1	13.8	19.3	13.8	11.0
57.5°	10.1	10.1	12.8	11.0	10.1
60°	10.1	10.1	10.1	10.1	10.1
62.5°	10.1	10.1	10.1	10.1	10.1
65°	9.2	10.1	10.1	10.1	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	9.2	9.2	8.3	9.2	9.2
72.5°	8.3	8.3	7.3	8.3	8.3
75°	6.4	6.4	6.4	6.4	6.4
77.5°	5.5	5.5	5.5	5.5	5.5
80°	4.6	4.6	3.7	4.6	4.6
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)