

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: P284049

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284049
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: LDA2B208027D010 EU2B20WFL558027 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: 1758.2 lumens
Efficiency: N/A
Efficacy: 85.3 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

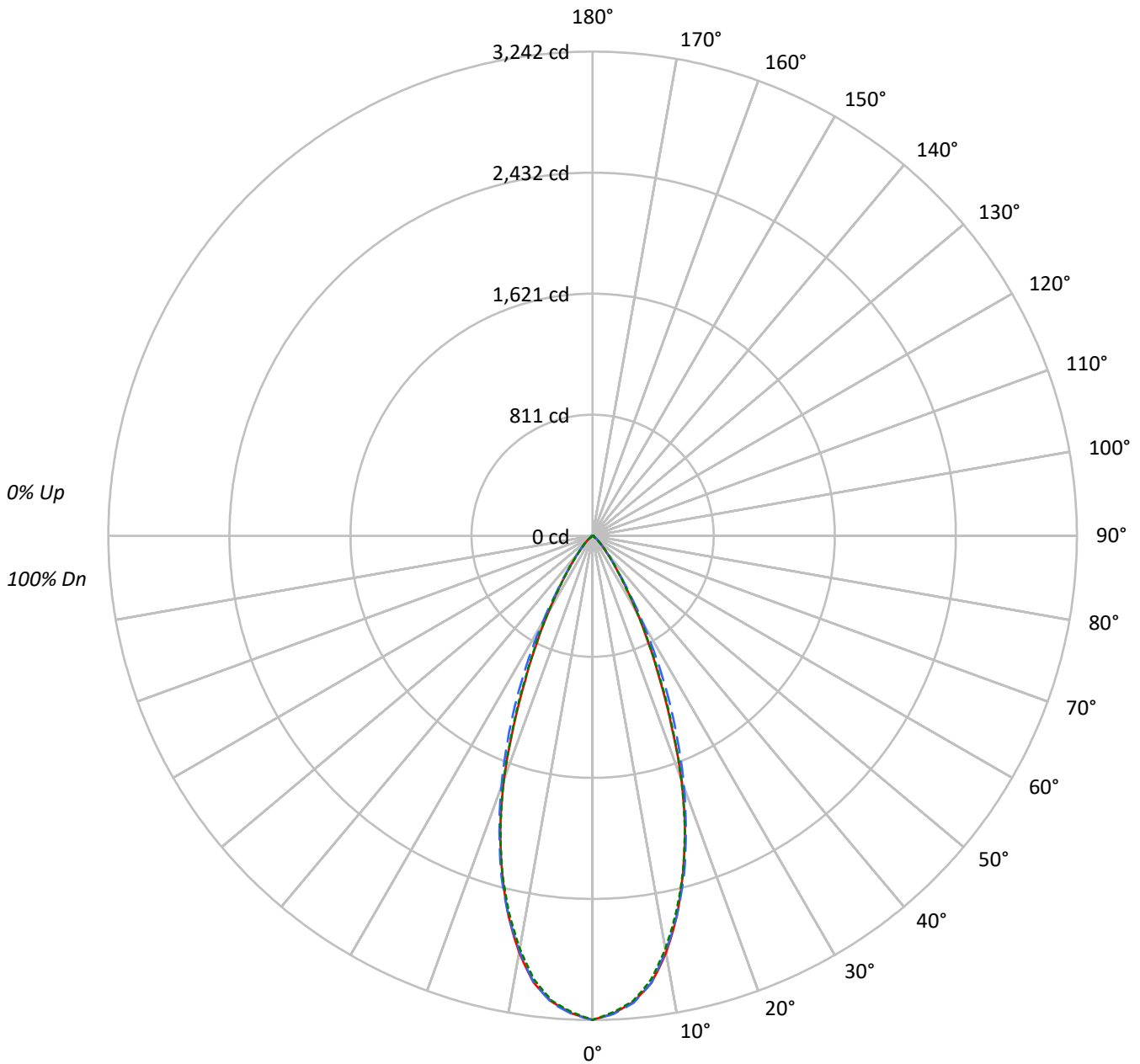
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1599282	1599282	1599282
5°	1551211	1554974	1547942
10°	1419907	1414246	1405729
15°	1194323	1205407	1192434
20°	913333	937589	911863
25°	579966	653891	591289
30°	337311	380835	343235
35°	178336	189659	178878
40°	94094	98345	94094
45°	52608	54631	53306
50°	24638	31085	24638
55°	8946	17031	9720
60°	10262	10262	10262
65°	10973	12141	10973
70°	13559	12261	13559
75°	12581	12581	12581
80°	13353	10796	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	16.5
10°-20°	644.3	36.6
20°-30°	520.3	29.6
30°-40°	205.6	11.7
40°-50°	63.1	3.6
50°-60°	16.3	0.9
60°-70°	9.9	0.6
70°-80°	7.2	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°	1454.0	82.7
0°-40°	1659.6	94.4
0°-60°	1739.0	98.9
0°-90°	1758.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3242	3242	3242	3242	3242	
5°	3132	3138	3140	3133	3126	290
15°	2338	2345	2360	2351	2335	642
25°	1065	1116	1201	1137	1086	496
35°	296	304	315	306	297	198
45°	75	76	78	77	76	62
55°	10	14	20	14	11	13
65°	9	10	10	10	9	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°	3241.6	3241.6	3241.6	3241.6	3241.6
2.5°	3201.1	3202.9	3205.8	3202.0	3192.6
5°	3132.2	3137.9	3139.8	3133.2	3125.6
7.5°	3019.1	3012.5	3018.1	3006.8	2997.4
10°	2834.3	2825.8	2823.0	2806.0	2806.0
12.5°	2606.1	2603.3	2605.2	2596.7	2583.5
15°	2338.3	2344.9	2360.0	2350.6	2334.6
17.5°	2054.5	2063.9	2077.1	2074.3	2052.6
20°	1739.6	1766.9	1785.8	1767.9	1736.8
22.5°	1381.3	1439.8	1487.9	1450.1	1399.2
25°	1065.4	1116.4	1201.2	1137.1	1086.2
27.5°	808.0	844.8	922.1	859.0	824.1
30°	592.1	614.8	668.5	627.0	602.5
32.5°	423.3	439.4	462.0	437.5	425.2
35°	296.1	304.5	314.9	305.5	297.0
37.5°	208.4	211.2	218.7	211.2	207.4
40°	146.1	147.1	152.7	148.0	146.1
42.5°	105.6	105.6	108.4	106.5	105.6
45°	75.4	76.4	78.3	77.3	76.4
47.5°	53.7	55.6	55.6	56.6	52.8
50°	32.1	39.6	40.5	39.6	32.1
52.5°	17.0	23.6	29.2	23.6	17.0
55°	10.4	14.1	19.8	14.1	11.3
57.5°	10.4	10.4	13.2	11.3	10.4
60°	10.4	10.4	10.4	10.4	10.4
62.5°	10.4	10.4	10.4	10.4	10.4
65°	9.4	10.4	10.4	10.4	9.4
67.5°	9.4	9.4	9.4	9.4	9.4
70°	9.4	9.4	8.5	9.4	9.4
72.5°	8.5	8.5	7.5	8.5	8.5
75°	6.6	6.6	6.6	6.6	6.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	4.7	4.7	3.8	4.7	4.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
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)