

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: P284048

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284048
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1809.7 lumens
Efficiency: N/A
Efficacy: 87.8 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

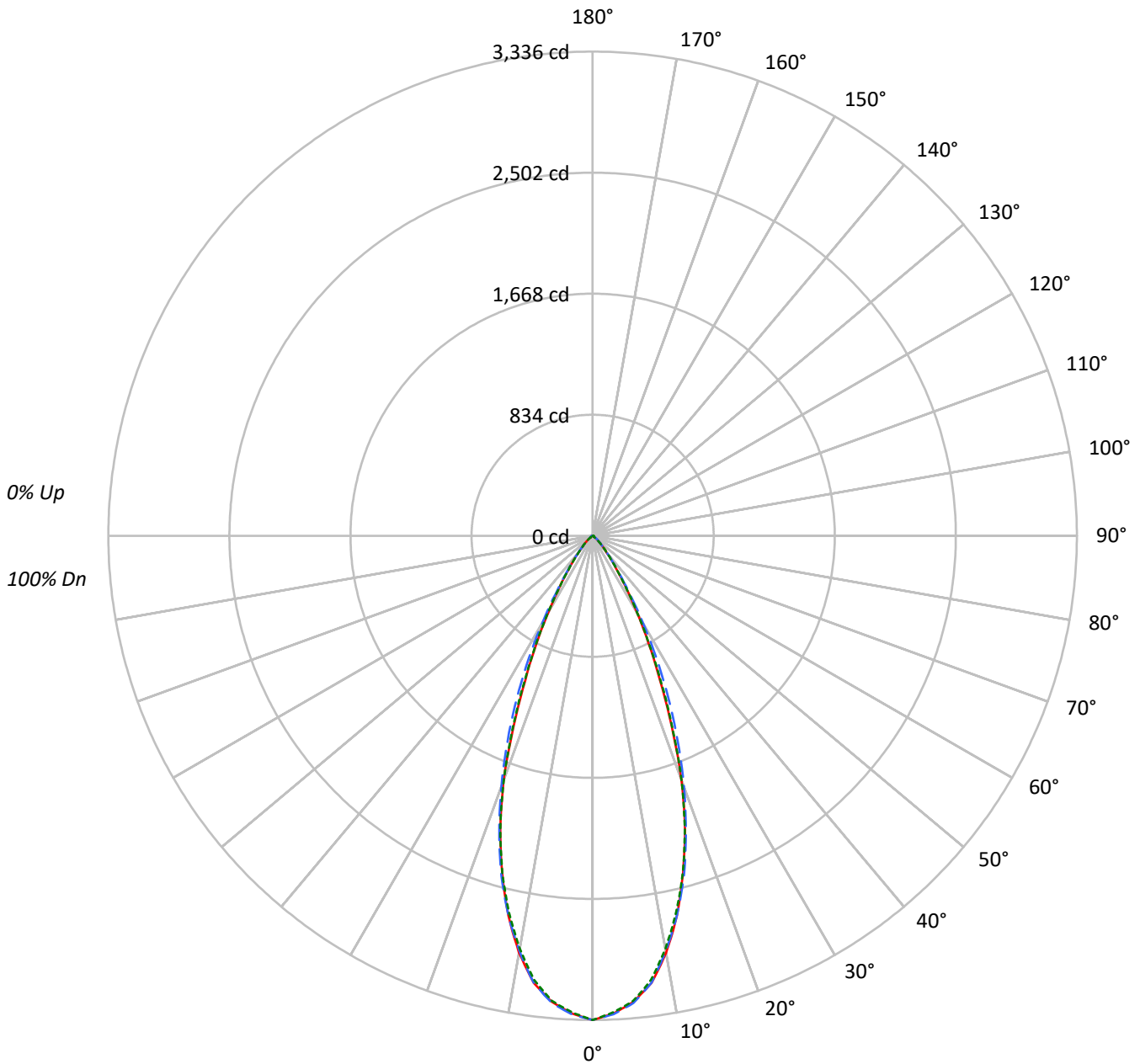
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1646052	1646052	1646052
5°	1596575	1600438	1593208
10°	1461438	1455576	1446859
15°	1229260	1240650	1227268
20°	940057	964995	938534
25°	596950	673052	608600
30°	347166	391943	353262
35°	183516	195200	184118
40°	96863	101243	96863
45°	54143	56166	54841
50°	25329	32006	25329
55°	9204	17547	9978
60°	10558	10558	10558
65°	11324	12491	11324
70°	13992	12550	13992
75°	12962	12962	12962
80°	13922	11081	13922
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	16.5
10°-20°	663.1	36.6
20°-30°	535.5	29.6
30°-40°	211.7	11.7
40°-50°	65.0	3.6
50°-60°	16.8	0.9
60°-70°	10.1	0.6
70°-80°	7.4	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°	1496.5	82.7
0°-40°	1708.1	94.4
0°-60°	1789.9	98.9
0°-90°	1809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1809.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3336	3336	3336	3336	3336	
5°	3224	3230	3232	3225	3217	298
15°	2407	2414	2429	2419	2403	661
25°	1097	1149	1236	1170	1118	511
35°	305	314	324	314	306	204
45°	78	79	80	80	79	63
55°	11	15	20	15	12	13
65°	10	11	11	11	10	10
75°	7	7	7	7	7	8
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°	3336.4	3336.4	3336.4	3336.4	3336.4
2.5°	3294.7	3296.6	3299.5	3295.6	3285.9
5°	3223.8	3229.7	3231.6	3224.8	3217.0
7.5°	3107.4	3100.6	3106.4	3094.8	3085.1
10°	2917.2	2908.4	2905.5	2888.1	2888.1
12.5°	2682.3	2679.4	2681.4	2672.6	2659.0
15°	2406.7	2413.5	2429.0	2419.3	2402.8
17.5°	2114.6	2124.3	2137.9	2135.0	2112.7
20°	1790.5	1818.6	1838.0	1819.6	1787.6
22.5°	1421.7	1481.9	1531.4	1492.6	1440.1
25°	1096.6	1149.0	1236.4	1170.4	1118.0
27.5°	831.7	869.5	949.1	884.1	848.2
30°	609.4	632.7	688.0	645.3	620.1
32.5°	435.7	452.2	475.5	450.3	437.7
35°	304.7	313.5	324.1	314.4	305.7
37.5°	214.5	217.4	225.1	217.4	213.5
40°	150.4	151.4	157.2	152.4	150.4
42.5°	108.7	108.7	111.6	109.7	108.7
45°	77.6	78.6	80.5	79.6	78.6
47.5°	55.3	57.3	57.3	58.2	54.3
50°	33.0	40.8	41.7	40.8	33.0
52.5°	17.5	24.3	30.1	24.3	17.5
55°	10.7	14.6	20.4	14.6	11.6
57.5°	10.7	10.7	13.6	11.6	10.7
60°	10.7	10.7	10.7	10.7	10.7
62.5°	10.7	10.7	10.7	10.7	10.7
65°	9.7	10.7	10.7	10.7	9.7
67.5°	9.7	9.7	9.7	9.7	9.7
70°	9.7	9.7	8.7	9.7	9.7
72.5°	8.7	8.7	7.8	8.7	8.7
75°	6.8	6.8	6.8	6.8	6.8
77.5°	5.8	5.8	5.8	5.8	5.8
80°	4.9	4.9	3.9	4.9	4.9
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)