

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: P284068

Luminaire Tested: **LDA2B208040D010 EU2B20WFL558040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284068
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.5 lumens
Efficiency: N/A
Efficacy: 93.3 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

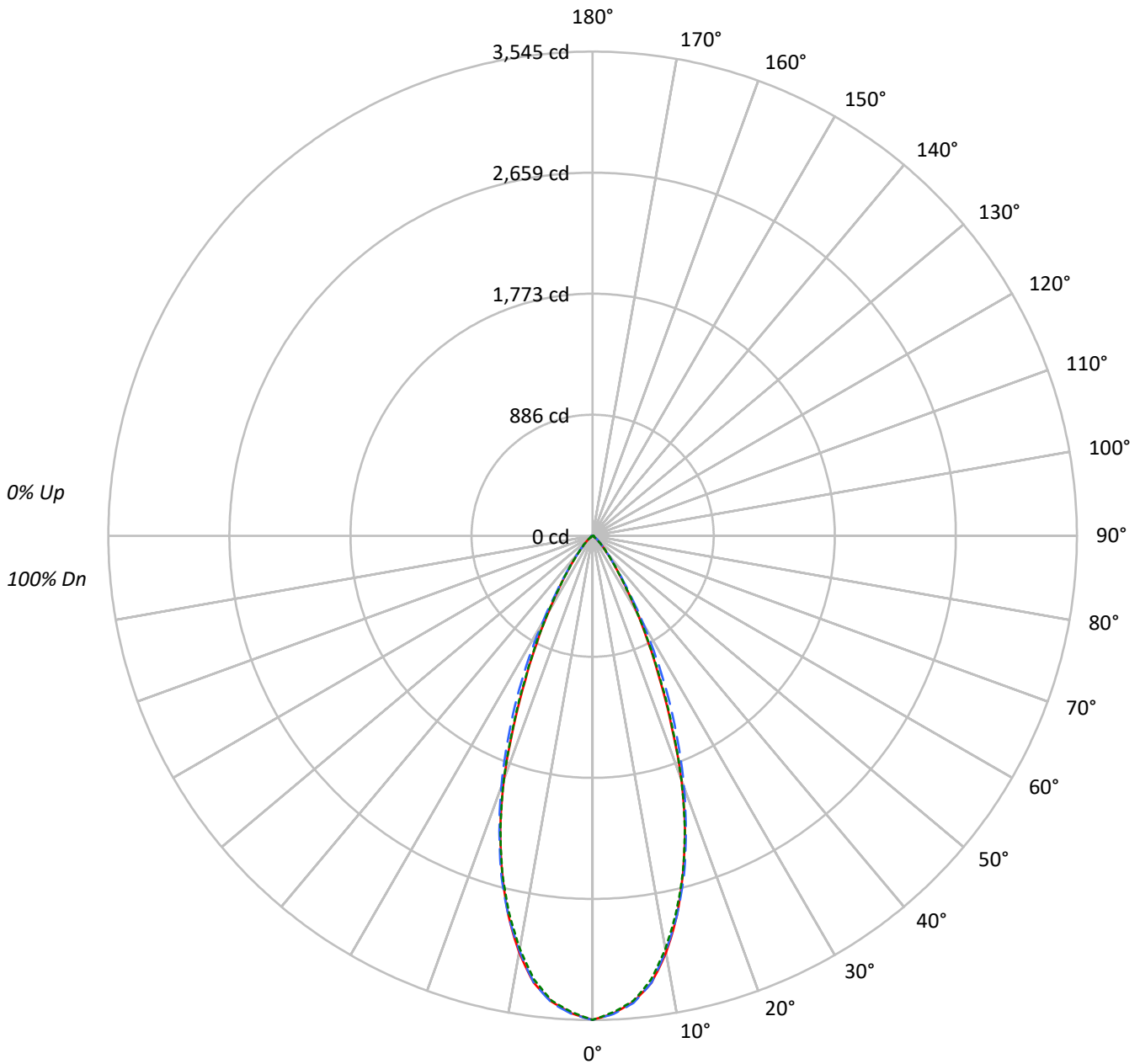
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1748770	1748770	1748770
5°	1696219	1700280	1692653
10°	1552615	1546402	1537084
15°	1305977	1318082	1303832
20°	998702	1025216	997074
25°	634185	715023	646542
30°	368871	416440	375309
35°	194959	207426	195622
40°	102917	107554	102917
45°	57562	59725	58260
50°	26940	34002	26940
55°	9720	18665	10666
60°	11150	11150	11150
65°	12024	13192	12024
70°	14858	13415	14858
75°	13725	13725	13725
80°	14774	11649	14774
85°	11887	11887	11887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	16.5
10°-20°	704.5	36.6
20°-30°	569.0	29.6
30°-40°	224.9	11.7
40°-50°	69.0	3.6
50°-60°	17.8	0.9
60°-70°	10.7	0.6
70°-80°	7.9	0.4
80°-90°	2.4	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°	1589.8	82.7
0°-40°	1814.7	94.4
0°-60°	1901.5	98.9
0°-90°	1922.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3545	3545	3545	3545	3545	
5°	3425	3431	3433	3426	3418	317
15°	2557	2564	2581	2570	2553	702
25°	1165	1221	1314	1243	1188	542
35°	324	333	344	334	325	217
45°	82	84	86	84	84	67
55°	11	16	22	16	12	14
65°	10	11	11	11	10	11
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°	3544.6	3544.6	3544.6	3544.6	3544.6
2.5°	3500.2	3502.3	3505.4	3501.3	3491.0
5°	3425.0	3431.2	3433.2	3426.0	3417.8
7.5°	3301.2	3294.0	3300.2	3287.8	3277.5
10°	3099.2	3089.9	3086.8	3068.2	3068.2
12.5°	2849.7	2846.6	2848.6	2839.4	2824.9
15°	2556.9	2564.1	2580.6	2570.3	2552.7
17.5°	2246.5	2256.8	2271.3	2268.2	2244.5
20°	1902.2	1932.1	1952.7	1933.1	1899.1
22.5°	1510.4	1574.3	1626.9	1585.7	1530.0
25°	1165.0	1220.7	1313.5	1243.4	1187.7
27.5°	883.6	923.8	1008.3	939.2	901.1
30°	647.5	672.2	731.0	685.6	658.8
32.5°	462.9	480.4	505.2	478.4	465.0
35°	323.7	333.0	344.4	334.0	324.8
37.5°	227.9	230.9	239.2	230.9	226.8
40°	159.8	160.8	167.0	161.9	159.8
42.5°	115.5	115.5	118.6	116.5	115.5
45°	82.5	83.5	85.6	84.5	83.5
47.5°	58.8	60.8	60.8	61.9	57.7
50°	35.1	43.3	44.3	43.3	35.1
52.5°	18.6	25.8	32.0	25.8	18.6
55°	11.3	15.5	21.7	15.5	12.4
57.5°	11.3	11.3	14.4	12.4	11.3
60°	11.3	11.3	11.3	11.3	11.3
62.5°	11.3	11.3	11.3	11.3	11.3
65°	10.3	11.3	11.3	11.3	10.3
67.5°	10.3	10.3	10.3	10.3	10.3
70°	10.3	10.3	9.3	10.3	10.3
72.5°	9.3	9.3	8.2	9.3	9.3
75°	7.2	7.2	7.2	7.2	7.2
77.5°	6.2	6.2	6.2	6.2	6.2
80°	5.2	5.2	4.1	5.2	5.2
82.5°	3.1	3.1	3.1	3.1	3.1
85°	2.1	2.1	2.1	2.1	2.1
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)