

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: P284072

Luminaire Tested: **LDA2B208050D010 EU2B20WFL558050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284072
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: LDA2B208050D010 EU2B20WFL558050 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: 1928.6 lumens
Efficiency: N/A
Efficacy: 93.6 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

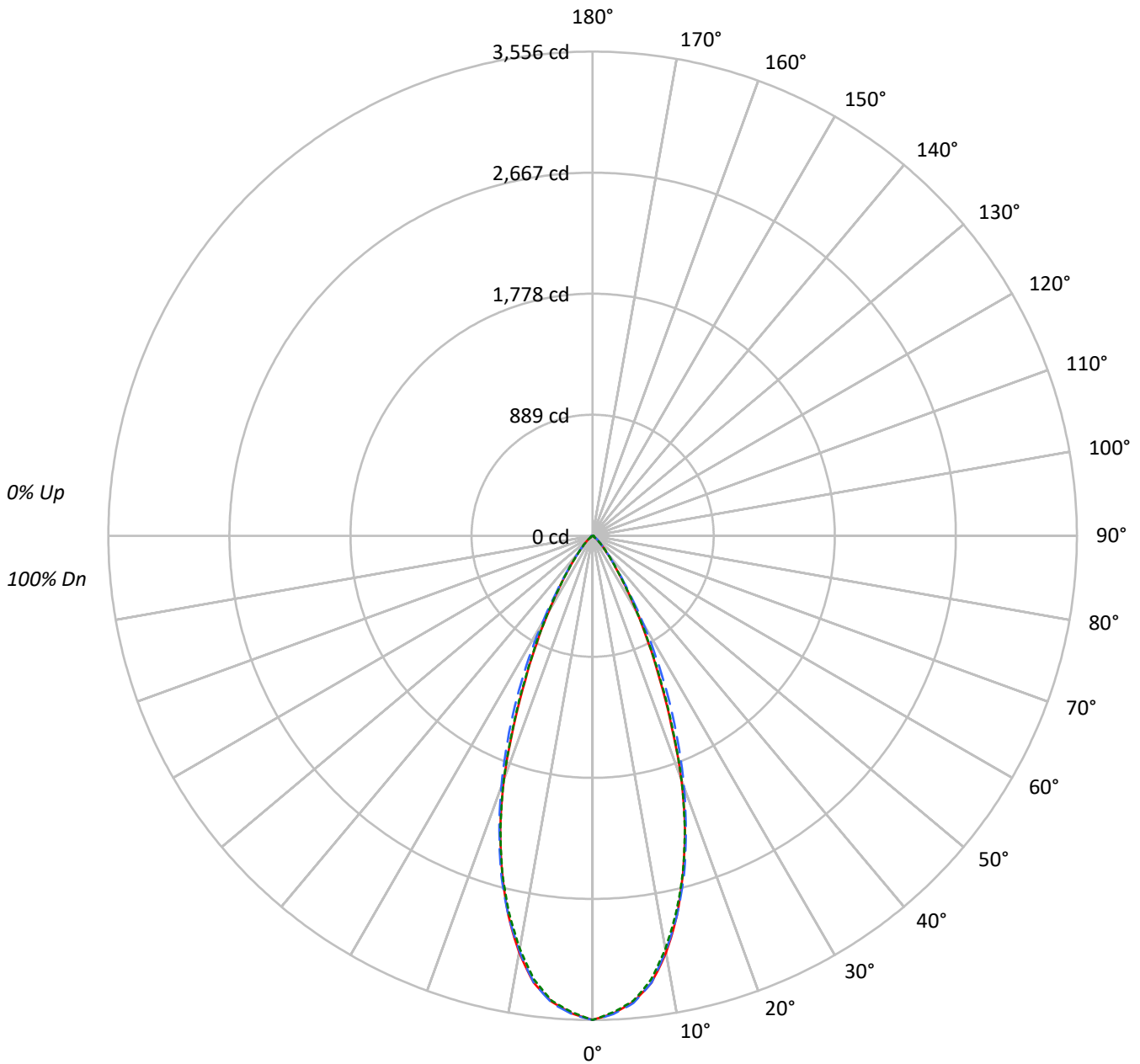
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1754296	1754296	1754296
5°	1701567	1705678	1698002
10°	1557524	1551312	1541944
15°	1310114	1322219	1307969
20°	1001852	1028471	1000224
25°	636199	717255	648610
30°	370010	417750	376505
35°	195622	208029	196224
40°	103239	107876	103239
45°	57701	59864	58469
50°	27017	34155	27017
55°	9806	18665	10666
60°	11249	11249	11249
65°	12024	13308	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°	317.4	16.5
10°-20°	706.7	36.6
20°-30°	570.8	29.6
30°-40°	225.6	11.7
40°-50°	69.3	3.6
50°-60°	17.9	0.9
60°-70°	10.8	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°	1594.9	82.7
0°-40°	1820.4	94.4
0°-60°	1907.6	98.9
0°-90°	1928.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1928.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3556	3556	3556	3556	3556	
5°	3436	3442	3444	3437	3429	318
15°	2565	2572	2589	2578	2561	704
25°	1169	1225	1318	1247	1192	544
35°	325	334	345	335	326	218
45°	83	84	86	85	84	68
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°	3555.8	3555.8	3555.8	3555.8	3555.8
2.5°	3511.3	3513.4	3516.5	3512.3	3502.0
5°	3435.8	3442.0	3444.1	3436.8	3428.6
7.5°	3311.7	3304.4	3310.7	3298.2	3287.9
10°	3109.0	3099.7	3096.6	3077.9	3077.9
12.5°	2858.7	2855.6	2857.6	2848.3	2833.9
15°	2565.0	2572.2	2588.7	2578.4	2560.8
17.5°	2253.6	2264.0	2278.5	2275.4	2251.6
20°	1908.2	1938.2	1958.9	1939.2	1905.1
22.5°	1515.2	1579.3	1632.1	1590.7	1534.8
25°	1168.7	1224.6	1317.6	1247.3	1191.5
27.5°	886.4	926.7	1011.5	942.2	903.9
30°	649.5	674.3	733.3	687.8	660.9
32.5°	464.4	482.0	506.8	479.9	466.4
35°	324.8	334.1	345.4	335.1	325.8
37.5°	228.6	231.7	239.9	231.7	227.5
40°	160.3	161.3	167.5	162.4	160.3
42.5°	115.8	115.8	118.9	116.9	115.8
45°	82.7	83.8	85.8	84.8	83.8
47.5°	59.0	61.0	61.0	62.1	57.9
50°	35.2	43.4	44.5	43.4	35.2
52.5°	18.6	25.9	32.1	25.9	18.6
55°	11.4	15.5	21.7	15.5	12.4
57.5°	11.4	11.4	14.5	12.4	11.4
60°	11.4	11.4	11.4	11.4	11.4
62.5°	11.4	11.4	11.4	11.4	11.4
65°	10.3	11.4	11.4	11.4	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	8.3	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)