

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: P284075

Luminaire Tested: **LDA2B208050D010 EU2B20WFL558050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284075
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1807.6 lumens
Efficiency: N/A
Efficacy: 87.7 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

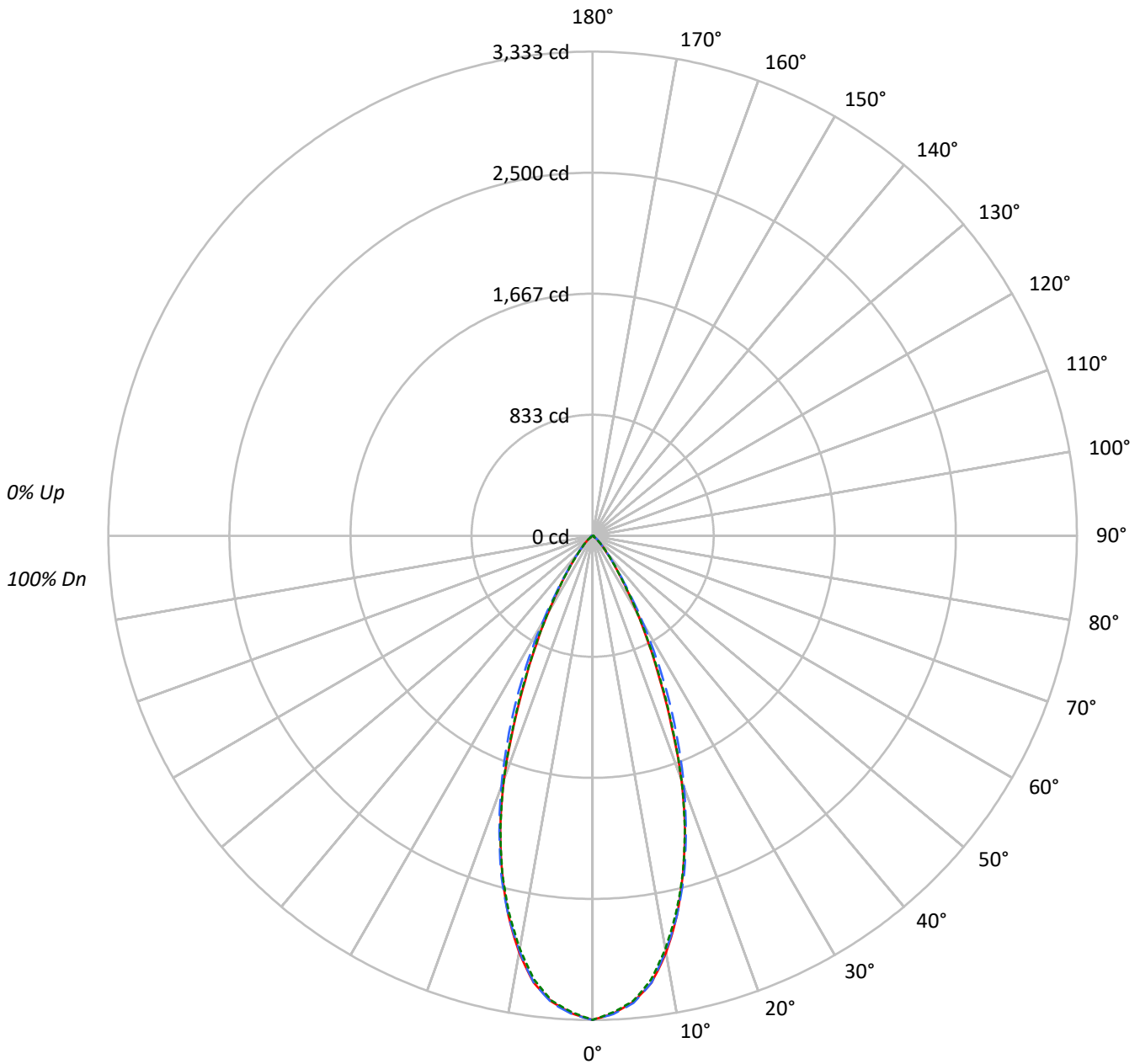
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1644227	1644227	1644227
5°	1594842	1598655	1591474
10°	1459784	1453973	1445256
15°	1227881	1239271	1225940
20°	939007	963945	937484
25°	596297	672290	607892
30°	346824	391545	352863
35°	183335	195019	183937
40°	96799	101114	96799
45°	54073	56166	54771
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°	13638	11081	13638
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.5	16.5
10°-20°	662.4	36.6
20°-30°	534.9	29.6
30°-40°	211.4	11.7
40°-50°	64.9	3.6
50°-60°	16.7	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°	1494.8	82.7
0°-40°	1706.2	94.4
0°-60°	1787.9	98.9
0°-90°	1807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3333	3333	3333	3333	3333	
5°	3220	3226	3228	3221	3214	298
15°	2404	2411	2426	2417	2400	660
25°	1095	1148	1235	1169	1117	510
35°	304	313	324	314	305	204
45°	78	78	80	80	78	63
55°	11	14	20	14	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°	3332.7	3332.7	3332.7	3332.7	3332.7
2.5°	3291.0	3293.0	3295.9	3292.0	3282.3
5°	3220.3	3226.1	3228.0	3221.2	3213.5
7.5°	3103.9	3097.1	3103.0	3091.3	3081.6
10°	2913.9	2905.2	2902.3	2884.9	2884.9
12.5°	2679.3	2676.4	2678.4	2669.7	2656.1
15°	2404.0	2410.8	2426.3	2416.6	2400.2
17.5°	2112.3	2122.0	2135.5	2132.6	2110.3
20°	1788.5	1816.6	1836.0	1817.6	1785.6
22.5°	1420.1	1480.2	1529.7	1490.9	1438.5
25°	1095.4	1147.7	1235.0	1169.1	1116.7
27.5°	830.8	868.6	948.0	883.1	847.2
30°	608.8	632.0	687.3	644.6	619.4
32.5°	435.2	451.7	475.0	449.8	437.2
35°	304.4	313.1	323.8	314.1	305.4
37.5°	214.2	217.1	224.9	217.1	213.3
40°	150.3	151.2	157.0	152.2	150.3
42.5°	108.6	108.6	111.5	109.5	108.6
45°	77.5	78.5	80.5	79.5	78.5
47.5°	55.3	57.2	57.2	58.2	54.3
50°	33.0	40.7	41.7	40.7	33.0
52.5°	17.4	24.2	30.1	24.2	17.4
55°	10.7	14.5	20.4	14.5	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°	4.8	4.8	3.9	4.8	4.8
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)