

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: P283766

Luminaire Tested: **LDA2B209040D010 EU2B20FL409040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209040D010 EU2B20FL409040 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1507.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

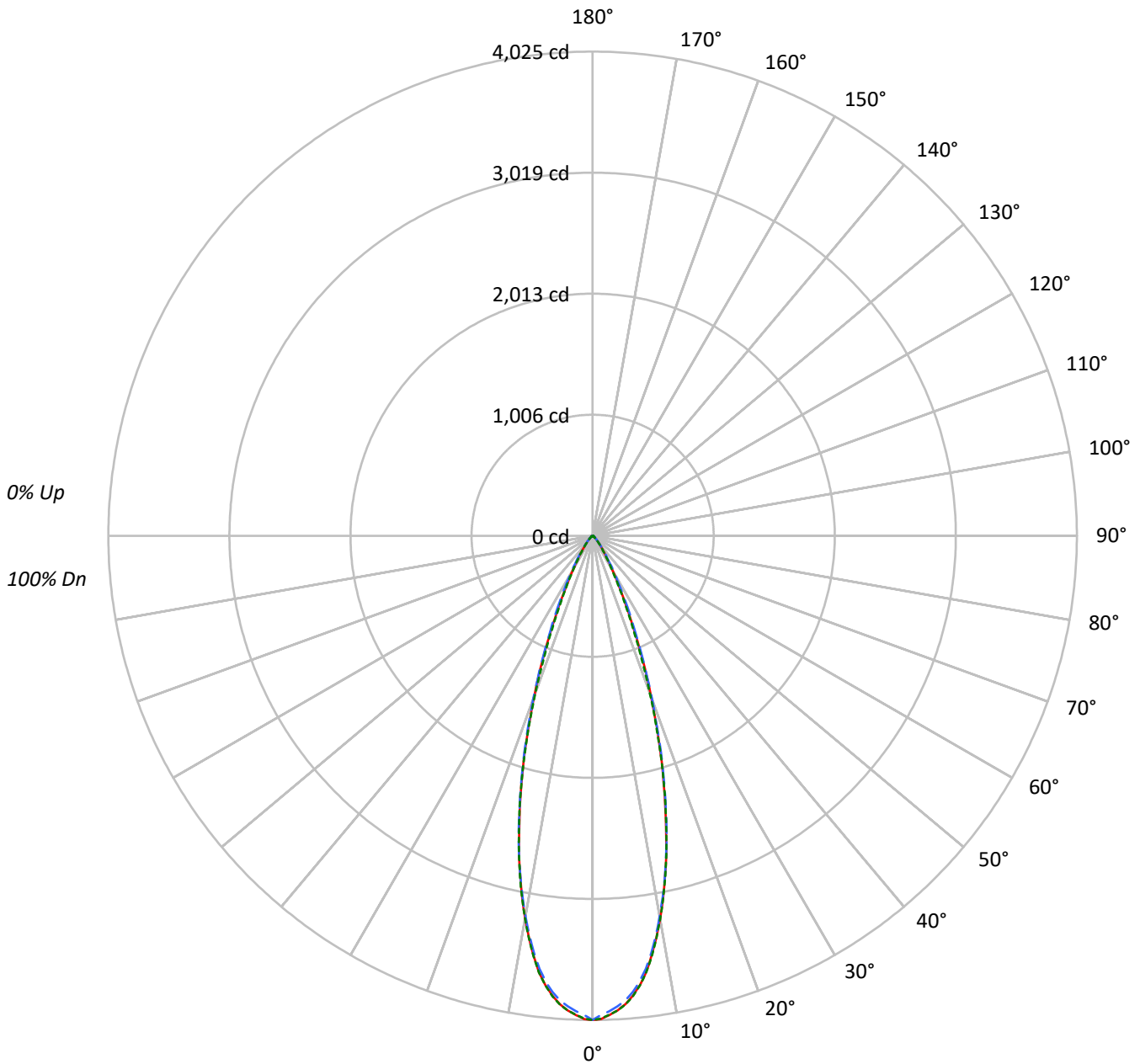
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1985880	1985880	1985880
5°	1900458	1886245	1903380
10°	1619144	1608974	1620797
15°	1193353	1201168	1197286
20°	745010	758766	728577
25°	384811	412900	365486
30°	184521	211467	175862
35°	95221	105400	89138
40°	53391	56096	50621
45°	32444	32444	31258
50°	16886	20800	16886
55°	8688	13848	9462
60°	9966	9966	9966
65°	10857	10857	10857
70°	13415	12261	13415
75°	12962	12962	12962
80°	11933	11933	11933
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	23.0
10°-20°	636.0	42.2
20°-30°	344.8	22.9
30°-40°	110.7	7.3
40°-50°	37.7	2.5
50°-60°	13.2	0.9
60°-70°	9.6	0.6
70°-80°	7.0	0.5
80°-90°	2.0	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°	1327.0	88.0
0°-40°	1437.6	95.4
0°-60°	1488.6	98.8
0°-90°	1507.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4025	4025	4025	4025	4025	
5°	3837	3814	3809	3847	3843	347
15°	2336	2356	2352	2363	2344	633
25°	707	739	758	706	671	339
35°	158	165	175	159	148	107
45°	46	47	46	46	45	37
55°	10	13	16	13	11	11
65°	9	10	9	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°	4025.2	4025.2	4025.2	4025.2	4025.2
1°	4018.4	3989.6	3985.4	4022.6	4014.2
2°	3986.3	3959.2	3955.0	3992.2	3984.6
3°	3950.7	3926.2	3917.8	3956.7	3951.6
4°	3903.4	3880.5	3872.9	3911.8	3907.6
5°	3837.4	3813.7	3808.7	3846.7	3843.3
6°	3756.2	3736.8	3727.5	3765.5	3758.8
7°	3654.8	3637.0	3626.9	3654.8	3658.2
8°	3522.9	3514.4	3502.6	3530.5	3530.5
9°	3382.5	3374.9	3362.2	3387.6	3387.6
10°	3232.0	3226.9	3211.7	3235.3	3235.3
11°	3067.1	3064.5	3053.5	3073.0	3073.0
12°	2893.7	2899.6	2889.5	2906.4	2900.5
13°	2720.4	2717.8	2718.7	2731.4	2722.1
14°	2524.2	2539.4	2541.9	2549.5	2535.2
15°	2336.4	2355.9	2351.7	2362.7	2344.1
16°	2144.5	2166.5	2165.6	2168.2	2150.4
17°	1965.2	1977.9	1978.8	1976.2	1954.2
18°	1774.1	1791.9	1791.9	1787.6	1761.4
19°	1587.2	1600.8	1610.1	1600.8	1570.3
20°	1419.0	1428.3	1445.2	1421.5	1387.7
21°	1257.4	1265.9	1280.3	1252.4	1215.2
22°	1102.7	1113.7	1127.2	1095.1	1056.2
23°	958.1	983.5	988.5	944.6	911.6
24°	825.3	854.1	862.5	817.7	783.0
25°	706.9	739.1	758.5	706.1	671.4
26°	604.6	635.9	659.6	607.2	574.2
27°	515.0	548.0	572.5	523.4	492.2
28°	438.0	470.2	495.5	449.9	420.3
29°	380.5	399.1	424.5	386.4	359.4
30°	323.9	344.2	371.2	332.3	308.7
32.5°	222.4	233.4	254.5	230.9	212.3
35°	158.1	164.9	175.0	159.0	148.0
37.5°	112.5	115.8	121.8	112.5	106.5
40°	82.9	84.6	87.1	82.0	78.6
42.5°	61.7	62.6	62.6	60.9	59.2
45°	46.5	47.4	46.5	46.5	44.8
47.5°	33.8	36.4	35.5	35.5	33.0
50°	22.0	27.1	27.1	26.2	22.0
52.5°	13.5	18.6	21.1	18.6	14.4
55°	10.1	12.7	16.1	12.7	11.0
57.5°	10.1	10.1	11.8	10.1	10.1
60°	10.1	10.1	10.1	10.1	10.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.3	9.3	9.3	9.3	9.3
70°	9.3	9.3	8.5	9.3	9.3
72.5°	8.5	8.5	7.6	8.5	7.6
75°	6.8	6.8	6.8	6.8	6.8
77.5°	5.1	5.1	5.1	5.1	5.1
80°	4.2	4.2	4.2	4.2	4.2
82.5°	2.5	2.5	2.5	3.4	2.5
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	10.1	10.1	10.1	10.1	10.1
65°	9.3	10.1	9.3	10.1	9.3



(END OF REPORT)