

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: P282631

Luminaire Tested: **LDA2B058040D010 EU2B05NFL258040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058040D010 EU2B05NFL258040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

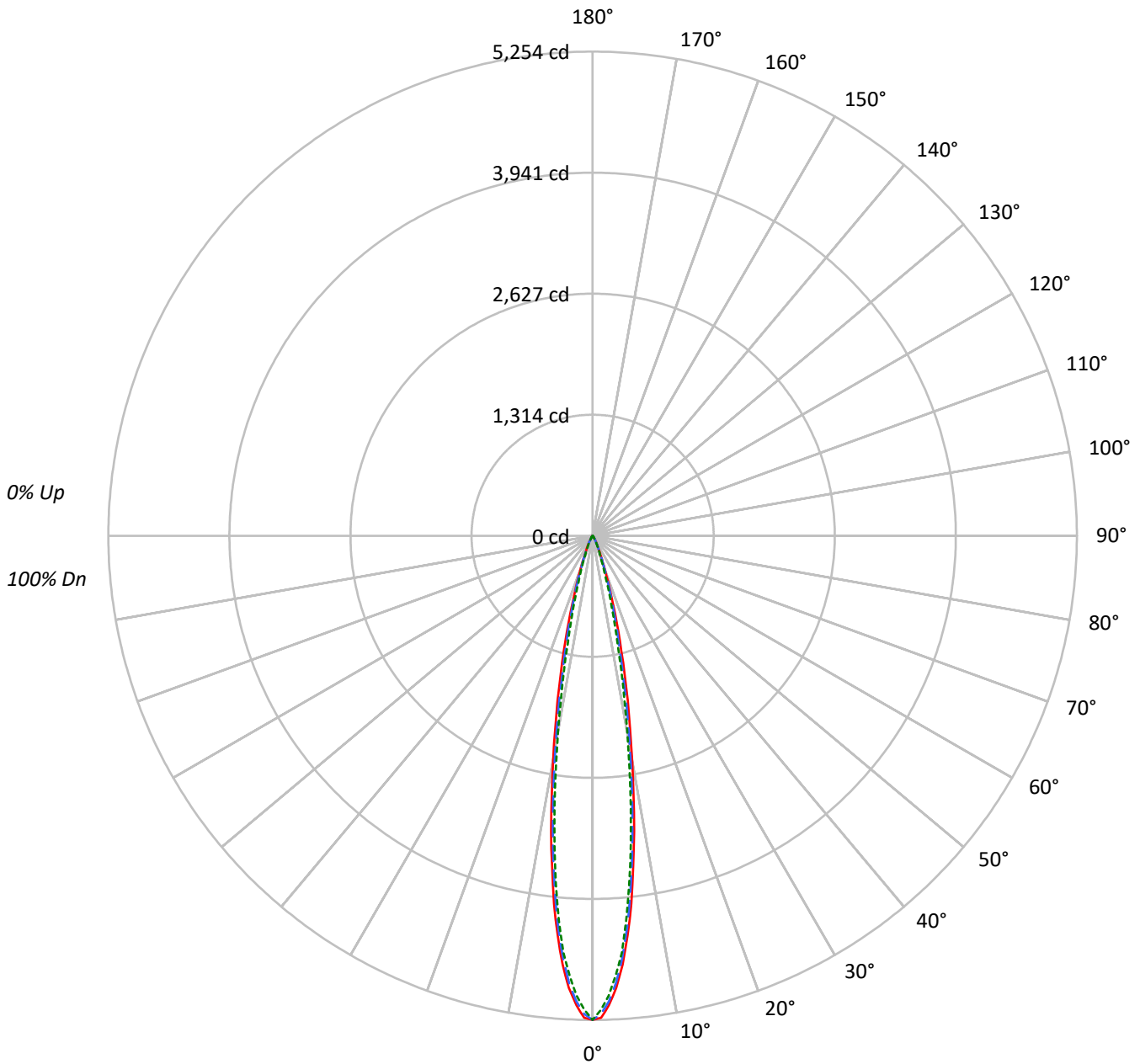
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2592024	2592024	2592024
5°	2156847	2117327	2074587
10°	1235449	1159301	1081951
15°	549482	488037	408970
20°	199352	187434	148477
25°	76538	71475	61568
30°	32985	30706	27231
35°	15599	15599	12949
40°	7857	8115	6505
45°	4535	4256	3977
50°	3147	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	48.1
10°-20°	276.5	38.9
20°-30°	66.7	9.4
30°-40°	17.0	2.4
40°-50°	5.1	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	684.9	96.4
0°-40°	701.9	98.8
0°-60°	709.1	99.8
0°-90°	710.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5254	5254	5254	5254	5254	
5°	4355	4315	4275	4238	4189	352
15°	1076	1050	956	861	801	307
25°	141	141	131	119	113	73
35°	26	26	26	24	22	18
45°	6	6	6	6	6	6
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5253.8	5253.8	5253.8	5253.8	5253.8
1°	5230.3	5193.9	5189.4	5212.1	5145.2
2°	5096.6	5070.7	5055.7	5069.1	4993.3
3°	4913.1	4887.9	4860.8	4861.2	4776.5
4°	4663.1	4643.2	4597.4	4583.6	4534.6
5°	4355.1	4315.0	4275.3	4238.0	4189.0
6°	4014.7	3962.9	3906.1	3850.6	3800.4
7°	3614.4	3579.9	3505.0	3429.2	3386.7
8°	3238.0	3182.4	3094.9	3000.1	2964.0
9°	2833.2	2793.5	2693.0	2582.8	2546.7
10°	2466.1	2424.7	2314.1	2191.3	2159.7
11°	2121.6	2082.7	1967.7	1838.8	1805.2
12°	1830.3	1775.2	1643.1	1531.3	1498.4
13°	1540.2	1502.5	1377.3	1266.7	1203.0
14°	1293.4	1262.2	1148.7	1051.5	984.2
15°	1075.8	1050.3	955.5	860.6	800.7
16°	882.5	866.7	791.8	700.2	651.2
17°	716.0	701.4	653.6	569.3	528.0
18°	578.2	576.2	536.5	463.5	426.7
19°	475.7	474.9	438.4	377.2	346.9
20°	379.7	384.9	357.0	303.5	282.8
21°	309.6	312.4	290.1	249.6	231.0
22°	252.0	254.1	239.5	206.2	196.1
23°	206.7	207.9	195.7	171.0	162.1
24°	170.2	171.0	160.1	142.6	134.9
25°	140.6	141.4	131.3	119.1	113.1
26°	116.7	117.5	108.6	100.1	94.0
27°	96.8	98.5	89.5	84.3	77.8
28°	82.7	83.1	75.0	71.7	65.6
29°	67.7	70.1	63.2	60.4	55.9
30°	57.9	59.2	53.9	51.9	47.8
32.5°	38.5	39.3	36.9	35.3	32.0
35°	25.9	26.3	25.9	23.5	21.5
37.5°	17.8	17.8	18.2	15.4	14.6
40°	12.2	12.2	12.6	10.5	10.1
42.5°	8.9	8.9	8.5	7.3	7.3
45°	6.5	6.5	6.1	5.7	5.7
47.5°	5.3	4.9	4.5	4.5	4.5
50°	4.1	4.1	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)