

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: P281483

Luminaire Tested: **LDA2B05D2WD010 EU2B05SP15D2W 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B05D2WD010 EU2B05SP15D2W 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 595.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

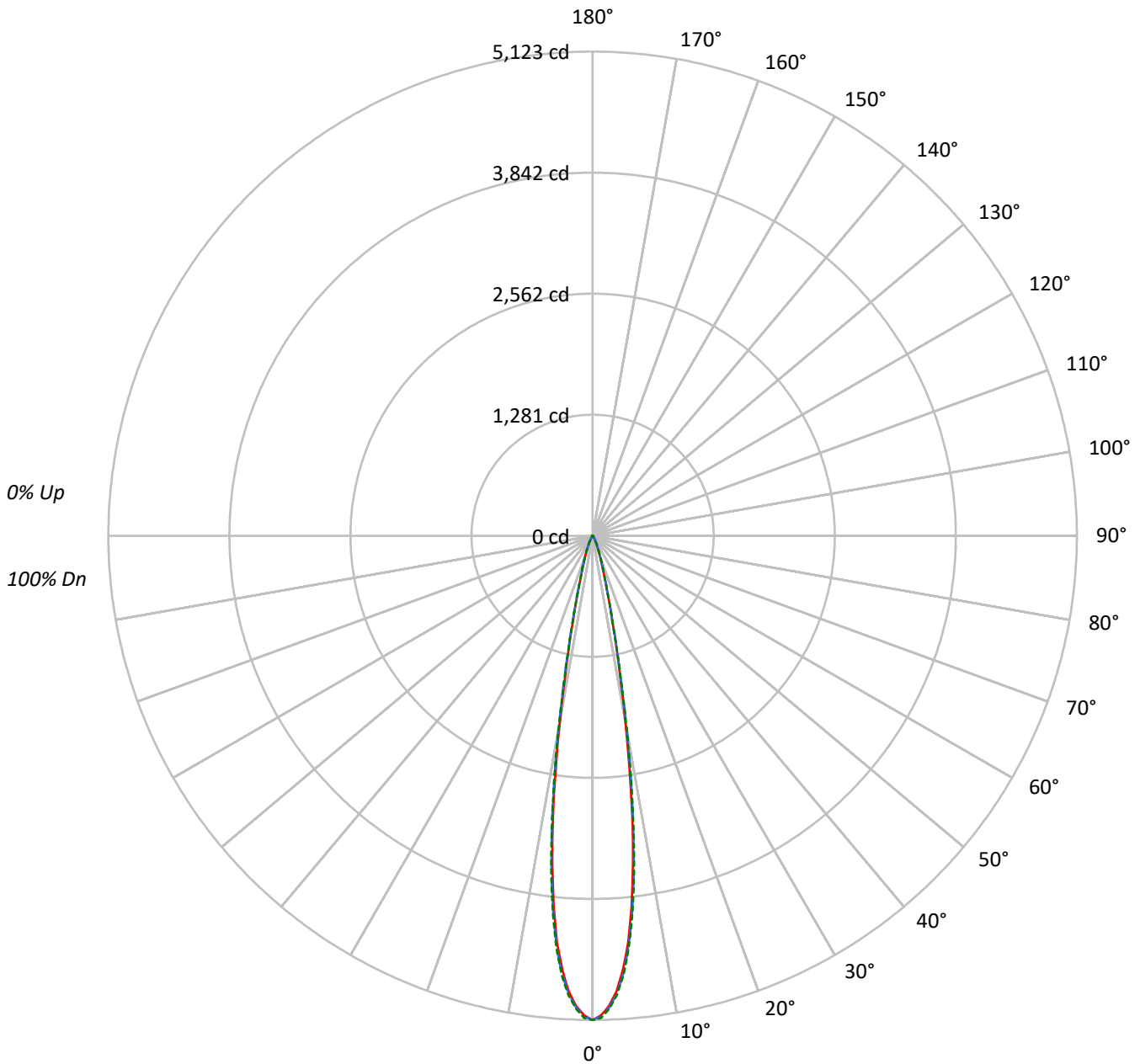
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96						98											
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94						96											
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92						94											
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90						92											
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	89	88						90											
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87						89											
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85						87											
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83						86											
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82						84											
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81						83											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527690	2527690	2527690
5°	2139415	2161800	2171160
10°	1000442	1038316	1040370
15°	293026	297266	297112
20°	117658	117816	117973
25°	52477	57812	53729
30°	22275	30649	20338
35°	10239	14214	9516
40°	3349	5539	2963
45°	0	2023	0
50°	0	0	0
55°	1032	516	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	1705	0	0
85°	3396	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	56.8
10°-20°	191.9	32.2
20°-30°	50.1	8.4
30°-40°	12.9	2.2
40°-50°	1.3	0.2
50°-60°	0.4	0.1
60°-70°	0.1	0.0
70°-80°	0.4	0.1
80°-90°	0.1	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°	580.6	97.4
0°-40°	593.5	99.6
0°-60°	595.2	99.9
0°-90°	595.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5123	5123	5123	5123	5123	
5°	4320	4358	4365	4337	4384	334
15°	574	582	582	575	582	188
25°	96	104	106	101	99	48
35°	17	18	24	16	16	12
45°	0	1	3	0	0	1
55°	1	1	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	1
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5123.4	5123.4	5123.4	5123.4	5123.4
1°	5075.4	5095.5	5089.5	5082.3	5102.4
2°	4977.6	4997.1	4995.4	4985.9	5009.5
3°	4826.8	4854.2	4854.2	4840.1	4869.4
4°	4602.1	4643.8	4647.9	4628.0	4664.6
5°	4319.9	4358.4	4365.1	4337.4	4384.0
6°	3937.5	3990.2	4005.1	3973.2	4021.0
7°	3498.2	3553.4	3576.2	3540.5	3594.0
8°	3024.4	3064.1	3091.4	3050.5	3104.9
9°	2494.1	2551.4	2576.4	2536.7	2589.6
10°	1997.0	2049.6	2072.6	2063.1	2076.7
11°	1551.0	1597.6	1613.2	1600.2	1606.5
12°	1214.4	1233.1	1243.2	1234.5	1238.9
13°	922.1	947.1	951.7	948.0	950.0
14°	720.1	732.2	737.4	735.7	736.5
15°	573.7	581.5	582.0	575.4	581.7
16°	462.1	468.1	470.7	463.8	472.1
17°	378.6	383.5	386.4	379.5	382.9
18°	311.6	315.3	319.4	313.3	318.5
19°	261.5	263.8	264.1	262.4	263.8
20°	224.1	223.0	224.4	221.2	224.7
22.5°	147.6	150.5	153.9	150.2	151.6
25°	96.4	104.4	106.2	101.3	98.7
26°	79.4	89.8	94.4	86.6	78.3
27°	65.9	73.4	79.4	69.0	62.4
28°	57.8	64.2	70.2	60.4	52.7
29°	48.3	54.7	65.0	53.8	48.9
30°	39.1	43.7	53.8	40.9	35.7
32.5°	22.2	25.9	34.8	24.2	19.9
35°	17.0	18.1	23.6	16.1	15.8
37.5°	14.7	13.2	18.4	13.2	10.6
40°	5.2	7.8	8.6	5.8	4.6
42.5°	2.3	2.3	3.7	1.2	1.2
45°	0.0	1.2	2.9	0.3	0.0
47.5°	0.0	0.0	0.6	0.0	0.0
50°	0.0	0.6	0.0	0.0	0.0
52.5°	0.6	0.0	0.0	0.0	0.0
55°	1.2	1.4	0.6	0.3	0.0
57.5°	1.7	1.4	0.6	0.6	0.6
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.6	0.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.3	0.0	0.0	0.0
77.5°	2.9	0.6	0.9	0.6	1.2
80°	0.6	0.0	0.0	0.0	0.0
82.5°	1.2	0.0	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.0	0.3	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.2	0.9	0.0	0.0	1.2



(END OF REPORT)