

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: P282787

Luminaire Tested: **LDA2B20D2WD010 EU2B20NFL25D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282787
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: LDA2B20D2WD010 EU2B20NFL25D2W 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 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: 1270.2 lumens
Efficiency: N/A
Efficacy: 61.7 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

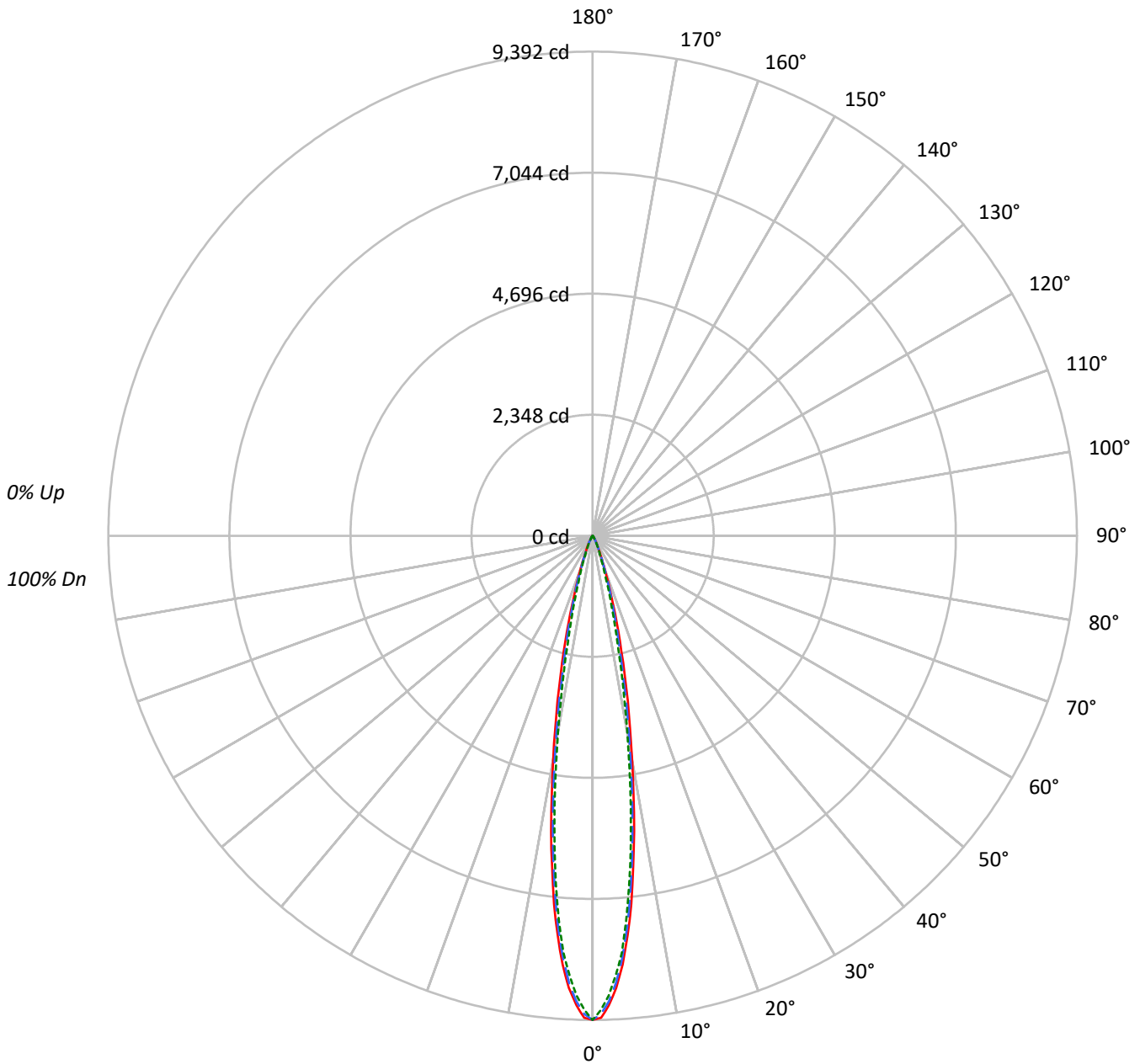
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4633851	4633851	4633851
5°	3855840	3785168	3708751
10°	2208588	2072524	1934256
15°	982305	872439	731110
20°	356334	335071	265452
25°	136853	127762	110016
30°	59019	54861	48708
35°	27946	27946	23128
40°	13976	14491	11657
45°	8094	7605	7047
50°	5526	4989	4989
55°	4387	3097	3699
60°	3552	2171	2861
65°	2568	1634	2568
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	48.1
10°-20°	494.4	38.9
20°-30°	119.2	9.4
30°-40°	30.4	2.4
40°-50°	9.1	0.7
50°-60°	3.9	0.3
60°-70°	1.9	0.1
70°-80°	0.6	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°	1224.4	96.4
0°-40°	1254.8	98.8
0°-60°	1267.7	99.8
0°-90°	1270.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9392	9392	9392	9392	9392	
5°	7786	7714	7643	7576	7489	630
15°	1923	1878	1708	1539	1431	548
25°	251	253	235	213	202	130
35°	46	47	46	42	38	32
45°	12	12	11	10	10	10
55°	5	4	4	4	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	9392.4	9392.4	9392.4	9392.4	9392.4
1°	9350.3	9285.1	9277.2	9317.7	9198.2
2°	9111.3	9064.9	9038.1	9062.0	8926.6
3°	8783.2	8738.2	8689.7	8690.4	8539.0
4°	8336.2	8300.7	8218.9	8194.2	8106.6
5°	7785.7	7714.0	7643.0	7576.3	7488.7
6°	7177.2	7084.5	6983.1	6883.8	6794.0
7°	6461.5	6399.9	6265.9	6130.5	6054.4
8°	5788.5	5689.3	5532.8	5363.3	5298.9
9°	5064.9	4993.9	4814.3	4617.2	4552.8
10°	4408.6	4334.7	4137.0	3917.5	3861.0
11°	3792.9	3723.3	3517.6	3287.3	3227.1
12°	3272.0	3173.5	2937.4	2737.4	2678.8
13°	2753.4	2686.0	2462.2	2264.4	2150.7
14°	2312.2	2256.5	2053.6	1879.8	1759.5
15°	1923.2	1877.6	1708.1	1538.6	1431.4
16°	1577.7	1549.5	1415.4	1251.7	1164.1
17°	1280.0	1253.9	1168.4	1017.8	943.9
18°	1033.7	1030.1	959.1	828.7	762.8
19°	850.4	849.0	783.8	674.4	620.1
20°	678.7	688.2	638.2	542.6	505.6
21°	553.4	558.5	518.7	446.2	412.9
22°	450.6	454.2	428.1	368.7	350.6
23°	369.4	371.6	349.9	305.7	289.8
24°	304.2	305.7	286.1	255.0	241.2
25°	251.4	252.8	234.7	213.0	202.1
26°	208.6	210.1	194.1	178.9	168.1
27°	173.1	176.0	160.1	150.7	139.1
28°	147.8	148.5	134.0	128.2	117.4
29°	121.0	125.3	113.0	107.9	100.0
30°	103.6	105.8	96.3	92.7	85.5
32.5°	68.8	70.3	65.9	63.0	57.2
35°	46.4	47.1	46.4	42.0	38.4
37.5°	31.9	31.9	32.6	27.5	26.1
40°	21.7	21.7	22.5	18.8	18.1
42.5°	15.9	15.9	15.2	13.0	13.0
45°	11.6	11.6	10.9	10.1	10.1
47.5°	9.4	8.7	8.0	8.0	8.0
50°	7.2	7.2	6.5	5.8	6.5
52.5°	5.8	5.8	5.1	5.1	5.1
55°	5.1	4.3	3.6	3.6	4.3
57.5°	3.6	3.6	2.9	2.9	3.6
60°	3.6	2.9	2.2	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.9	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.4	1.4	2.2



(END OF REPORT)