

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: P282785

Luminaire Tested: **LDA2B20D2WD010 EU2B20NFL25D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282785
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1267.1 lumens
Efficiency: N/A
Efficacy: 61.5 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

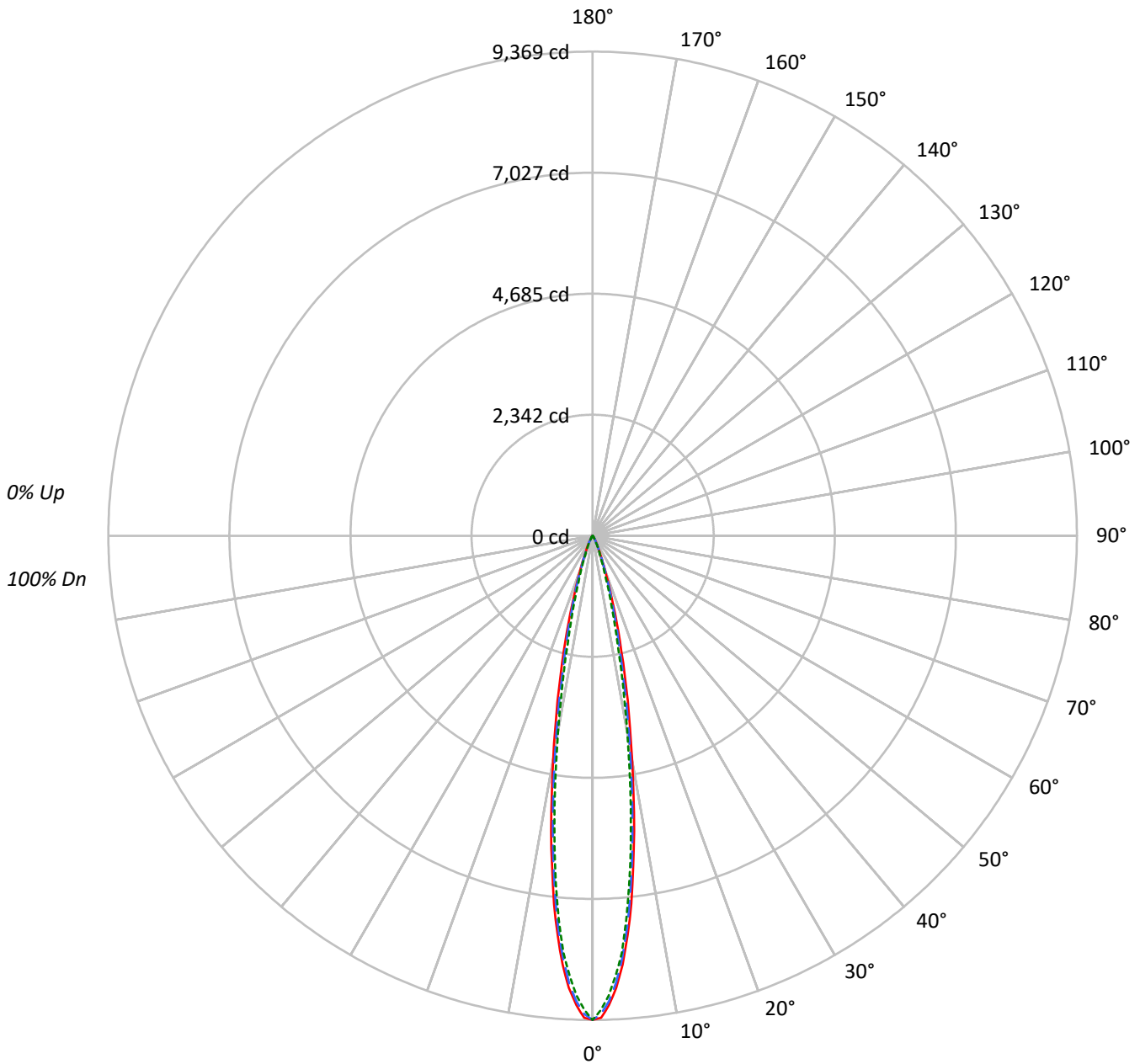
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282785

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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°	4622504	4622504	4622504
5°	3846430	3775907	3699688
10°	2203178	2067464	1929496
15°	979904	870294	729322
20°	355494	334231	264822
25°	136472	127436	109744
30°	58848	54747	48594
35°	27825	27825	23067
40°	13976	14426	11657
45°	8094	7535	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°	609.4	48.1
10°-20°	493.1	38.9
20°-30°	118.9	9.4
30°-40°	30.3	2.4
40°-50°	9.0	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°	1221.4	96.4
0°-40°	1251.8	98.8
0°-60°	1264.7	99.8
0°-90°	1267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9369	9369	9369	9369	9369	
5°	7767	7695	7624	7558	7470	628
15°	1918	1873	1704	1535	1428	547
25°	251	252	234	212	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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CATALOG NUMBER: LDA2B20D2WD010 EU2B20NFL25D2W 2LBALPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9369.4	9369.4	9369.4	9369.4	9369.4
1°	9327.5	9262.5	9254.5	9295.0	9175.8
2°	9089.1	9042.8	9016.1	9039.9	8904.8
3°	8761.7	8716.9	8668.5	8669.2	8518.2
4°	8315.9	8280.5	8198.8	8174.2	8086.8
5°	7766.7	7695.1	7624.3	7557.8	7470.4
6°	7159.7	7067.2	6966.0	6867.0	6777.4
7°	6445.7	6384.3	6250.6	6115.5	6039.6
8°	5774.4	5675.4	5519.3	5350.2	5285.9
9°	5052.5	4981.7	4802.5	4606.0	4541.6
10°	4397.8	4324.1	4126.9	3907.9	3851.5
11°	3783.6	3714.2	3509.0	3279.2	3219.3
12°	3264.1	3165.8	2930.2	2730.8	2672.2
13°	2746.7	2679.5	2456.2	2258.9	2145.4
14°	2306.6	2250.9	2048.6	1875.2	1755.2
15°	1918.5	1873.0	1703.9	1534.8	1427.9
16°	1573.9	1545.7	1412.0	1248.7	1161.2
17°	1276.9	1250.8	1165.6	1015.3	941.6
18°	1031.2	1027.6	956.7	826.7	760.9
19°	848.4	846.9	781.9	672.8	618.6
20°	677.1	686.5	636.6	541.2	504.4
21°	552.1	557.1	517.4	445.1	411.9
22°	449.5	453.1	427.1	367.8	349.7
23°	368.5	370.7	349.0	304.9	289.0
24°	303.5	304.9	285.4	254.4	240.6
25°	250.7	252.2	234.1	212.4	201.6
26°	208.1	209.6	193.7	178.5	167.6
27°	172.7	175.6	159.7	150.3	138.7
28°	147.4	148.1	133.7	127.9	117.1
29°	120.7	125.0	112.7	107.7	99.7
30°	103.3	105.5	96.1	92.5	85.3
32.5°	68.6	70.1	65.8	62.9	57.1
35°	46.2	47.0	46.2	41.9	38.3
37.5°	31.8	31.8	32.5	27.5	26.0
40°	21.7	21.7	22.4	18.8	18.1
42.5°	15.9	15.9	15.2	13.0	13.0
45°	11.6	11.6	10.8	10.1	10.1
47.5°	9.4	8.7	7.9	7.9	7.9
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



TEST NUMBER: P282785

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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)