

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: P314786

Luminaire Tested: **LDA2B10SPD2WD010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10SPD2WD010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

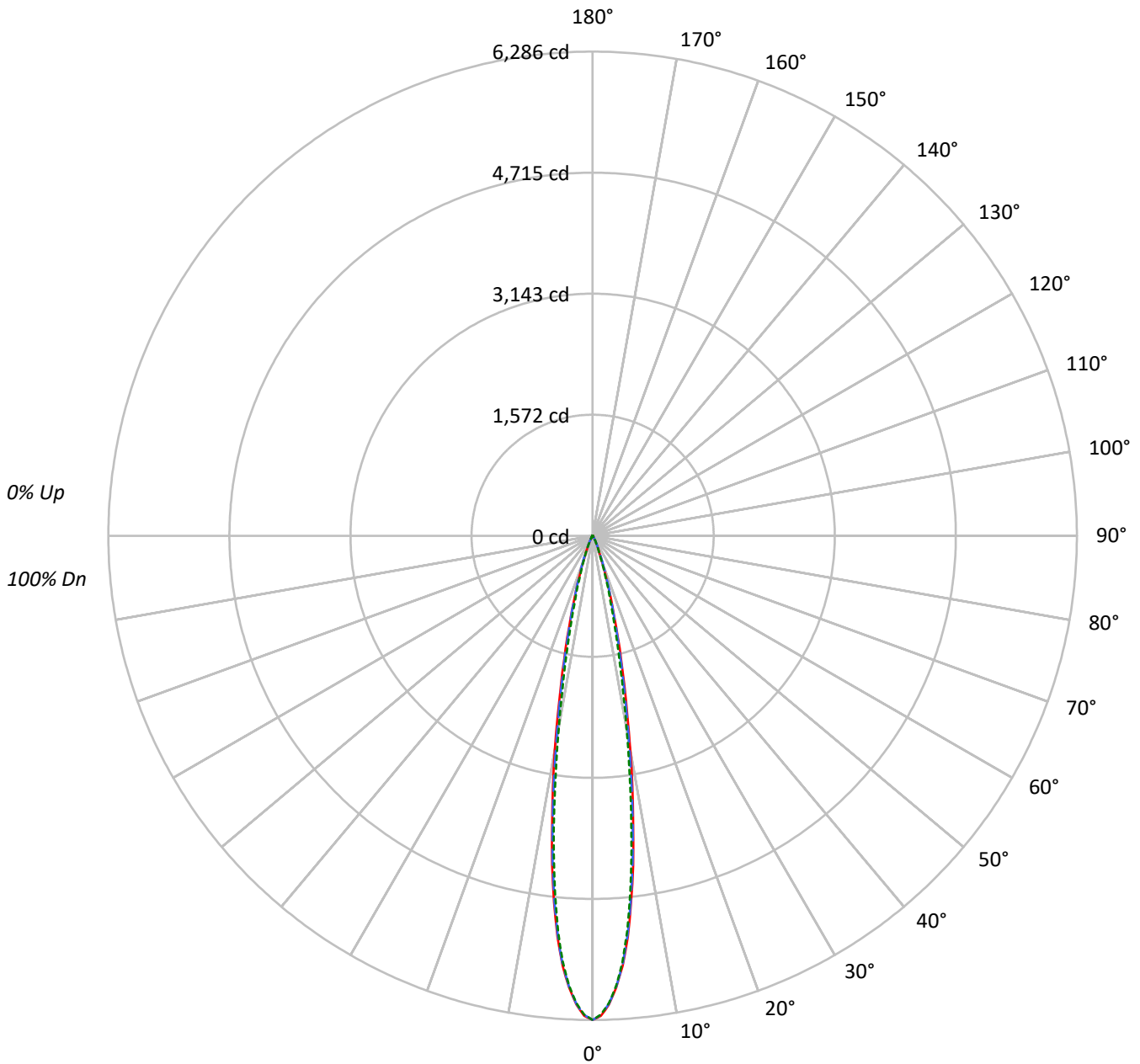
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3101124	3101124	3101124
5°	2590832	2578451	2547943
10°	1411591	1356584	1269765
15°	559646	545396	468168
20°	188064	200927	166065
25°	65269	70495	62656
30°	23870	26035	25522
35°	15358	17948	13612
40°	8050	9596	9918
45°	7396	5721	5372
50°	4452	2993	2226
55°	0	0	0
60°	2861	2861	987
65°	2218	584	0
70°	0	2019	2741
75°	0	4575	0
80°	0	0	0
85°	0	2830	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	50.8
10°-20°	305.9	37.8
20°-30°	67.7	8.4
30°-40°	15.0	1.9
40°-50°	6.2	0.8
50°-60°	1.0	0.1
60°-70°	1.1	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	784.5	96.9
0°-40°	799.6	98.8
0°-60°	806.7	99.7
0°-90°	809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6286	6286	6286	6286	6286	
5°	5231	5210	5206	5187	5145	417
15°	1096	1092	1068	968	917	322
25°	120	134	130	120	115	65
35°	26	26	30	24	23	15
45°	11	9	8	8	8	6
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	1
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6285.7	6285.7	6285.7	6285.7	6285.7
1°	6234.2	6208.7	6221.2	6228.4	6217.8
2°	6088.8	6058.0	6077.8	6079.7	6069.1
3°	5872.2	5858.2	5864.5	5866.9	5845.7
4°	5594.9	5574.7	5579.0	5573.7	5547.7
5°	5231.4	5209.8	5206.4	5186.7	5144.8
6°	4787.1	4774.6	4752.0	4718.3	4662.4
7°	4311.0	4300.9	4261.9	4201.2	4136.7
8°	3789.1	3789.1	3732.8	3649.1	3575.4
9°	3295.2	3276.9	3205.2	3104.1	3032.9
10°	2817.7	2793.1	2707.9	2605.4	2534.6
11°	2365.6	2339.6	2257.8	2152.8	2087.4
12°	1975.2	1961.2	1897.7	1782.2	1716.7
13°	1645.4	1627.2	1571.3	1462.0	1406.2
14°	1358.0	1334.9	1290.2	1190.0	1135.6
15°	1095.7	1092.3	1067.8	968.1	916.6
16°	895.4	893.5	870.4	773.1	752.0
17°	718.7	728.8	722.1	632.6	608.5
18°	559.4	579.6	584.4	503.6	479.5
19°	450.1	469.4	477.6	406.8	386.6
20°	358.2	376.5	382.7	329.8	316.3
22.5°	203.2	227.7	228.7	201.2	187.3
25°	119.9	133.8	129.5	119.9	115.1
26°	100.6	114.1	107.4	104.5	100.6
27°	84.7	93.9	88.6	83.8	87.1
28°	70.3	76.5	71.2	72.7	67.4
29°	55.8	66.4	58.7	60.2	55.8
30°	41.9	51.5	45.7	48.1	44.8
32.5°	31.3	34.2	30.3	34.2	34.2
35°	25.5	25.5	29.8	24.1	22.6
37.5°	11.6	9.1	10.1	8.2	9.6
40°	12.5	14.0	14.9	12.5	15.4
42.5°	8.7	11.6	11.6	7.7	13.5
45°	10.6	8.7	8.2	8.2	7.7
47.5°	4.8	3.4	3.9	4.3	6.7
50°	5.8	2.4	3.9	5.8	2.9
52.5°	1.9	0.0	2.4	0.0	1.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	0.0
60°	2.9	3.4	2.9	1.9	1.0
62.5°	4.8	1.0	1.4	1.9	0.0
65°	1.9	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.4	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.4	0.0	0.0
77.5°	1.0	0.0	1.9	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.4	1.9	0.0
85°	0.0	0.5	0.5	1.4	0.0
87.5°	0.0	1.4	1.9	0.5	1.0
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	1.4	1.0	1.9
72.5°	0.0	0.5	1.9	2.9	1.0



(END OF REPORT)