

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: P252085

Luminaire Tested: **LD4B20D010 EU4B10209040 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10209040 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 877.9 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.94
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

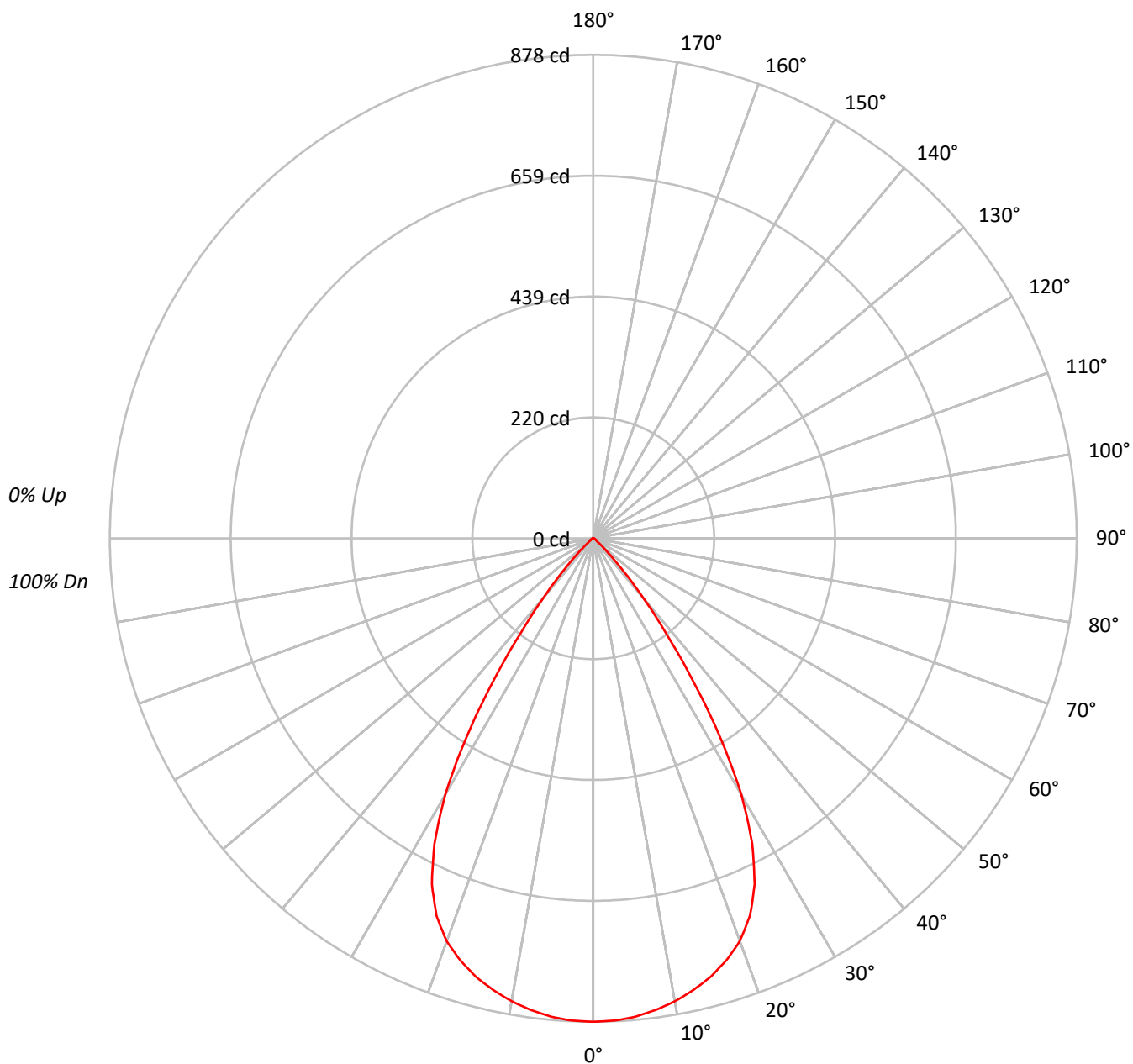
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	77		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	63	82	73	67	63	72	67	63		71	66	63		69
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85578
5°	85347
10°	84513
15°	83159
20°	80730
25°	74574
30°	60499
35°	37501
40°	17646
45°	6161
50°	1744
55°	1172
60°	897
65°	784
70°	655
75°	414
80°	617
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	9.4
10°-20°	231.7	26.4
20°-30°	311.4	35.5
30°-40°	198.9	22.7
40°-50°	42.3	4.8
50°-60°	6.4	0.7
60°-70°	3.1	0.4
70°-80°	1.3	0.2
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°	625.8	71.3
0°-40°	824.7	93.9
0°-60°	873.4	99.5
0°-90°	877.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	878	
5°	872	83
15°	824	232
25°	694	311
35°	315	199
45°	45	42
55°	7	6
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	878.1
2.5°	876.9
5°	872.4
7.5°	864.3
10°	854.0
12.5°	840.3
15°	824.2
17.5°	803.6
20°	778.4
22.5°	742.8
25°	693.5
27.5°	624.8
30°	537.6
32.5°	429.9
35°	315.2
37.5°	215.5
40°	138.7
42.5°	82.5
45°	44.7
47.5°	22.9
50°	11.5
52.5°	8.0
55°	6.9
57.5°	5.7
60°	4.6
62.5°	3.4
65°	3.4
67.5°	2.3
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)