

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: P252081

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252081
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 EU4B10209024 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 731.0 lumens
Efficiency: N/A
Efficacy: 35.1 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

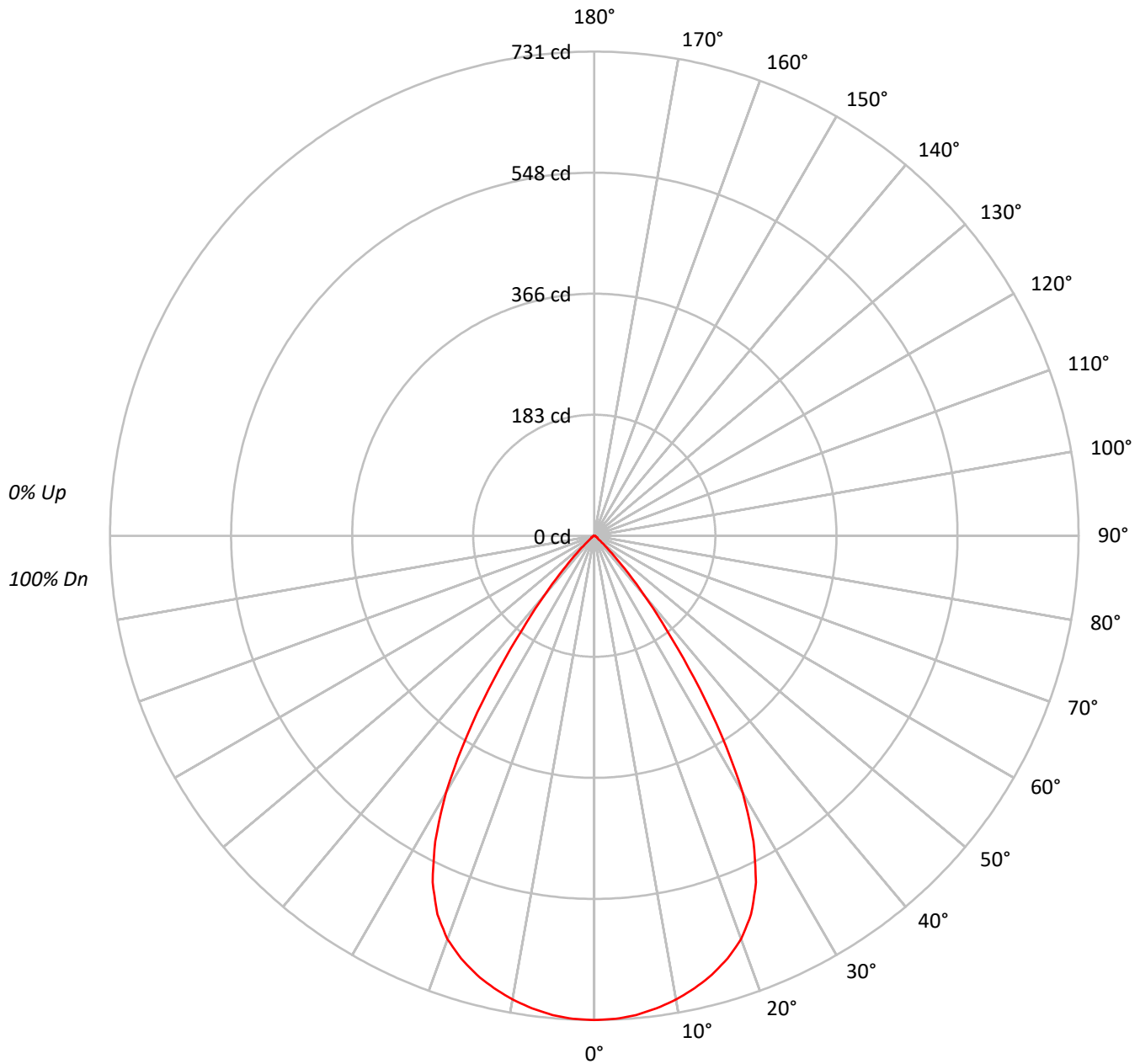
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	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	60	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71252
5°	71054
10°	70362
15°	69235
20°	67206
25°	62090
30°	50371
35°	31231
40°	14694
45°	5127
50°	1440
55°	969
60°	741
65°	669
70°	541
75°	377
80°	561
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	9.4
10°-20°	192.9	26.4
20°-30°	259.3	35.5
30°-40°	165.6	22.7
40°-50°	35.2	4.8
50°-60°	5.3	0.7
60°-70°	2.6	0.4
70°-80°	1.2	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°	521.0	71.3
0°-40°	686.6	93.9
0°-60°	727.1	99.5
0°-90°	731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	731	
5°	726	69
15°	686	193
25°	577	259
35°	262	166
45°	37	35
55°	6	5
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	731.1
2.5°	730.1
5°	726.3
7.5°	719.6
10°	711.0
12.5°	699.6
15°	686.2
17.5°	669.0
20°	648.0
22.5°	618.5
25°	577.4
27.5°	520.2
30°	447.6
32.5°	357.9
35°	262.5
37.5°	179.4
40°	115.5
42.5°	68.7
45°	37.2
47.5°	19.1
50°	9.5
52.5°	6.7
55°	5.7
57.5°	4.8
60°	3.8
62.5°	2.9
65°	2.9
67.5°	1.9
70°	1.9
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)