

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: P252010

Luminaire Tested: **LD4B20D010 EU4B10209730 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 EU4B10209730 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1810.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

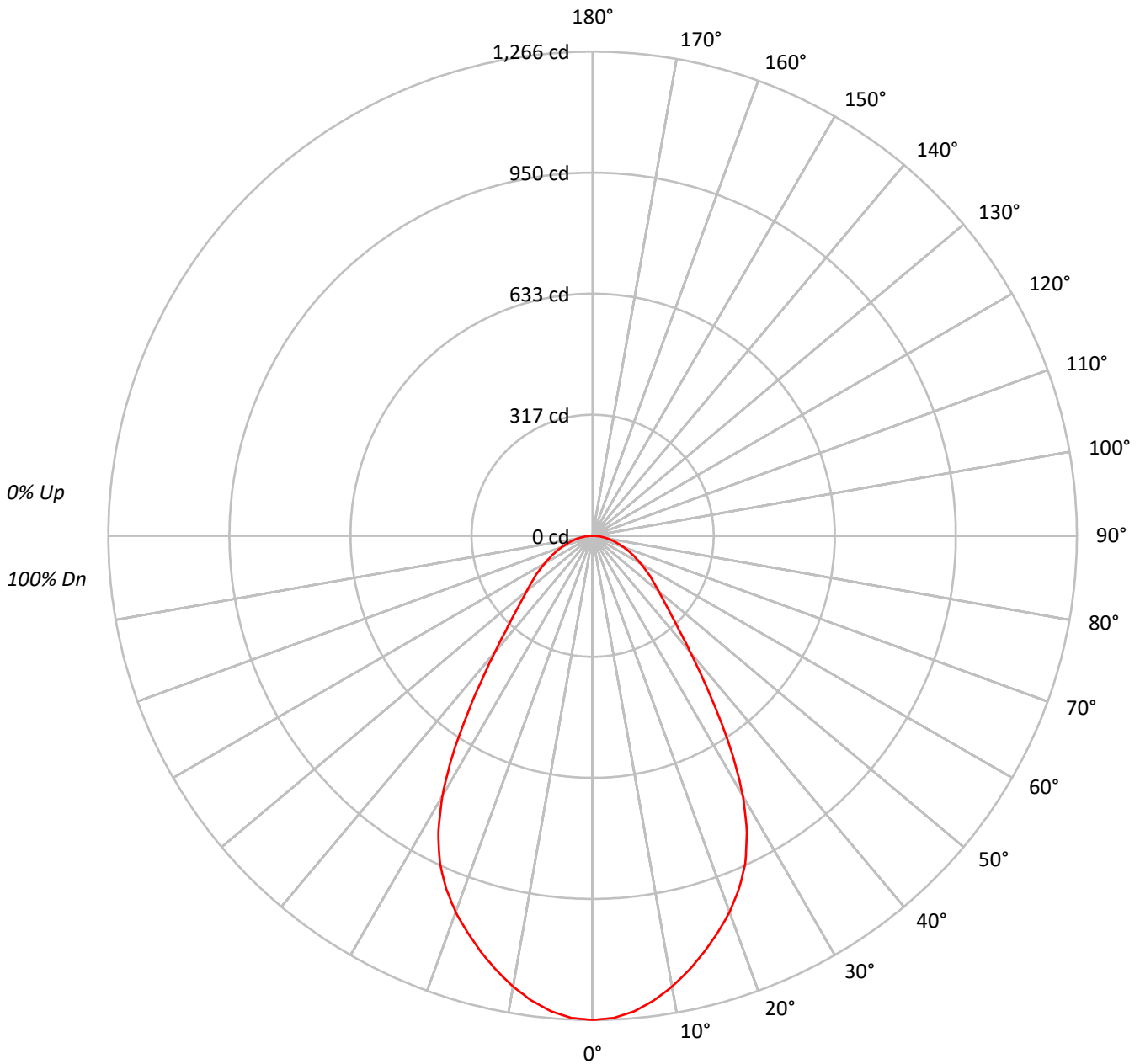
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123362
5°	122102
10°	118437
15°	113680
20°	108566
25°	101533
30°	88374
35°	68196
40°	50456
45°	39708
50°	34099
55°	31009
60°	28263
65°	26174
70°	24164
75°	22668
80°	21046
85°	19904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	6.5
10°-20°	316.6	17.5
20°-30°	428.4	23.7
30°-40°	360.0	19.9
40°-50°	227.8	12.6
50°-60°	163.6	9.0
60°-70°	112.6	6.2
70°-80°	63.7	3.5
80°-90°	19.6	1.1
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°	862.6	47.7
0°-40°	1222.6	67.5
0°-60°	1614.0	89.2
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1266	
5°	1248	117
15°	1127	317
25°	944	428
35°	573	360
45°	288	228
55°	182	164
65°	114	113
75°	60	64
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1265.8
2.5°	1261.9
5°	1248.1
7.5°	1225.4
10°	1196.8
12.5°	1163.2
15°	1126.7
17.5°	1087.2
20°	1046.8
22.5°	999.4
25°	944.2
27.5°	873.1
30°	785.3
32.5°	682.7
35°	573.2
37.5°	476.5
40°	396.6
42.5°	334.5
45°	288.1
47.5°	252.6
50°	224.9
52.5°	202.3
55°	182.5
57.5°	162.8
60°	145.0
62.5°	128.3
65°	113.5
67.5°	98.7
70°	84.8
72.5°	72.0
75°	60.2
77.5°	48.3
80°	37.5
82.5°	27.6
85°	17.8
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)