

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: P252004

Luminaire Tested: **LD4B20D010 EU4B10209027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252004
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 EU4B10209027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

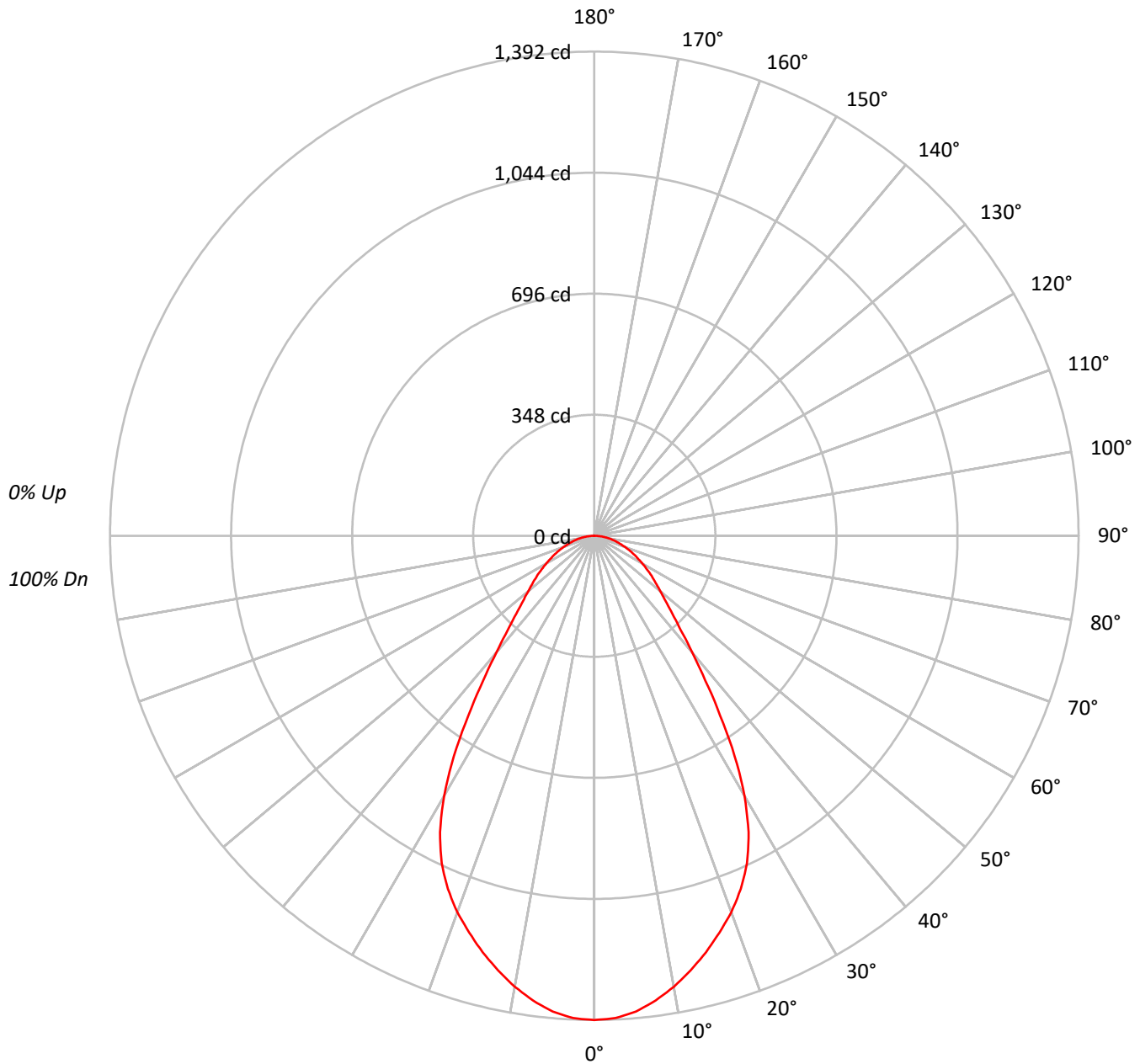
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62	
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51	
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43	
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135701
5°	134311
10°	130273
15°	125051
20°	119425
25°	111684
30°	97219
35°	75013
40°	55507
45°	43677
50°	37510
55°	34119
60°	31089
65°	28780
70°	26586
75°	24928
80°	23123
85°	21805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	6.5
10°-20°	348.3	17.5
20°-30°	471.3	23.7
30°-40°	396.0	19.9
40°-50°	250.6	12.6
50°-60°	180.0	9.0
60°-70°	123.9	6.2
70°-80°	70.1	3.5
80°-90°	21.5	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°	948.9	47.7
0°-40°	1344.9	67.5
0°-60°	1775.5	89.2
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1392	
5°	1373	129
15°	1239	348
25°	1039	471
35°	630	396
45°	317	251
55°	201	180
65°	125	124
75°	66	70
85°	20	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1392.4
2.5°	1388.1
5°	1372.9
7.5°	1347.9
10°	1316.4
12.5°	1279.5
15°	1239.4
17.5°	1196.0
20°	1151.5
22.5°	1099.4
25°	1038.6
27.5°	960.5
30°	863.9
32.5°	751.0
35°	630.5
37.5°	524.2
40°	436.3
42.5°	367.9
45°	316.9
47.5°	277.8
50°	247.4
52.5°	222.5
55°	200.8
57.5°	179.1
60°	159.5
62.5°	141.1
65°	124.8
67.5°	108.5
70°	93.3
72.5°	79.2
75°	66.2
77.5°	53.2
80°	41.2
82.5°	30.4
85°	19.5
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)