

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: P251999

Luminaire Tested: **LD4B20D010 EU4B10208030 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251999
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 EU4B10208030 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

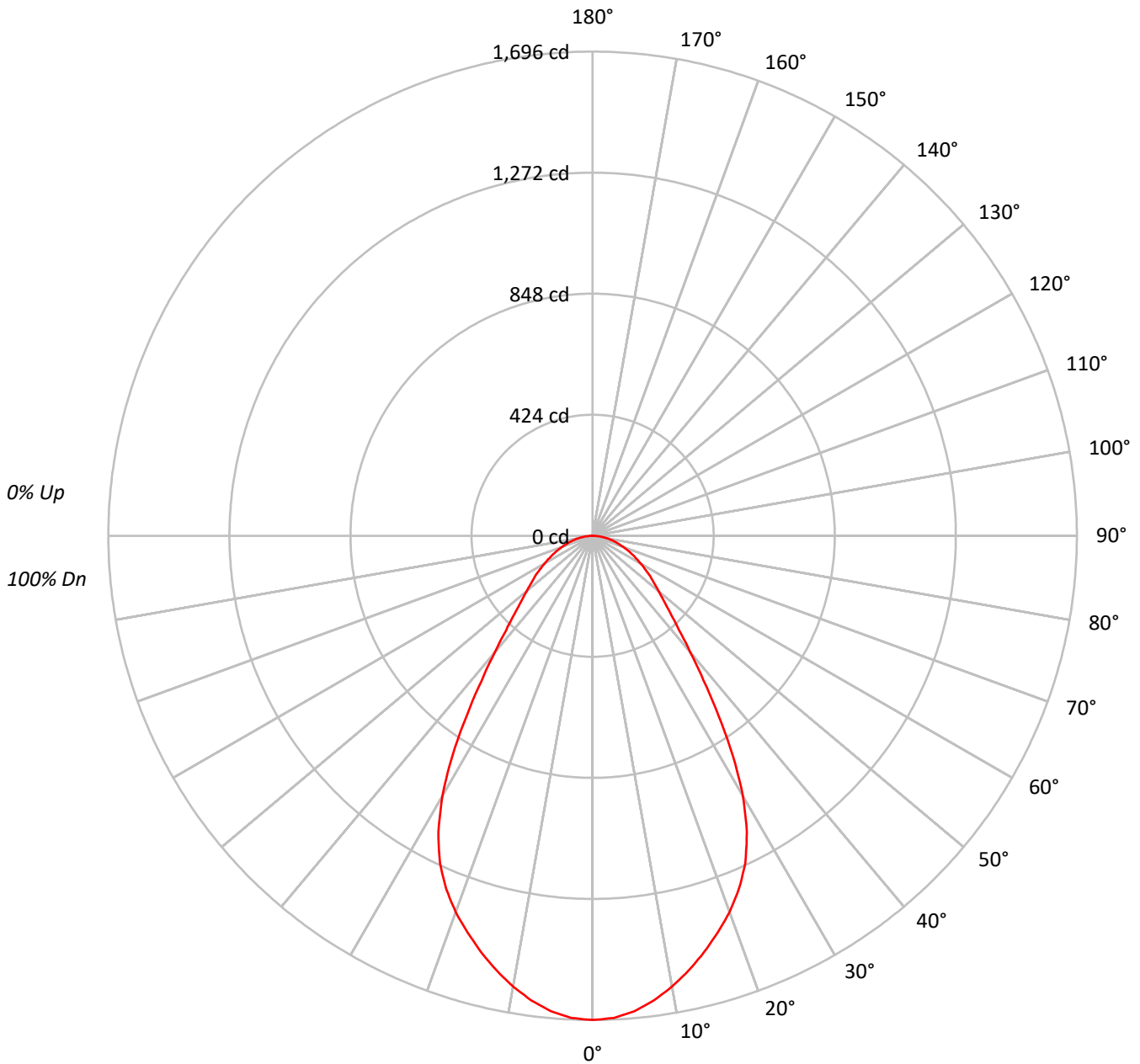
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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			
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	54	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°	165279
5°	163582
10°	158675
15°	152303
20°	145457
25°	136029
30°	118409
35°	91372
40°	67606
45°	53201
50°	45698
55°	41544
60°	37872
65°	35052
70°	32399
75°	30350
80°	28174
85°	26613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	6.5
10°-20°	424.2	17.5
20°-30°	574.0	23.7
30°-40°	482.3	19.9
40°-50°	305.2	12.6
50°-60°	219.2	9.0
60°-70°	150.9	6.2
70°-80°	85.4	3.5
80°-90°	26.3	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°	1155.7	47.7
0°-40°	1638.0	67.5
0°-60°	2162.5	89.2
0°-90°	2425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1696	
5°	1672	157
15°	1510	424
25°	1265	574
35°	768	482
45°	386	305
55°	244	219
65°	152	151
75°	81	85
85°	24	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1695.9
2.5°	1690.6
5°	1672.1
7.5°	1641.7
10°	1603.4
12.5°	1558.4
15°	1509.5
17.5°	1456.7
20°	1402.5
22.5°	1339.0
25°	1265.0
27.5°	1169.8
30°	1052.2
32.5°	914.7
35°	768.0
37.5°	638.4
40°	531.4
42.5°	448.1
45°	386.0
47.5°	338.4
50°	301.4
52.5°	271.0
55°	244.5
57.5°	218.1
60°	194.3
62.5°	171.8
65°	152.0
67.5°	132.2
70°	113.7
72.5°	96.5
75°	80.6
77.5°	64.8
80°	50.2
82.5°	37.0
85°	23.8
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)