

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: P252012

Luminaire Tested: **LD4B30D010 EU4B30508030 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252012
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: LD4B30D010 EU4B30508030 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: 3493.9 lumens
Efficiency: N/A
Efficacy: 124.8 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

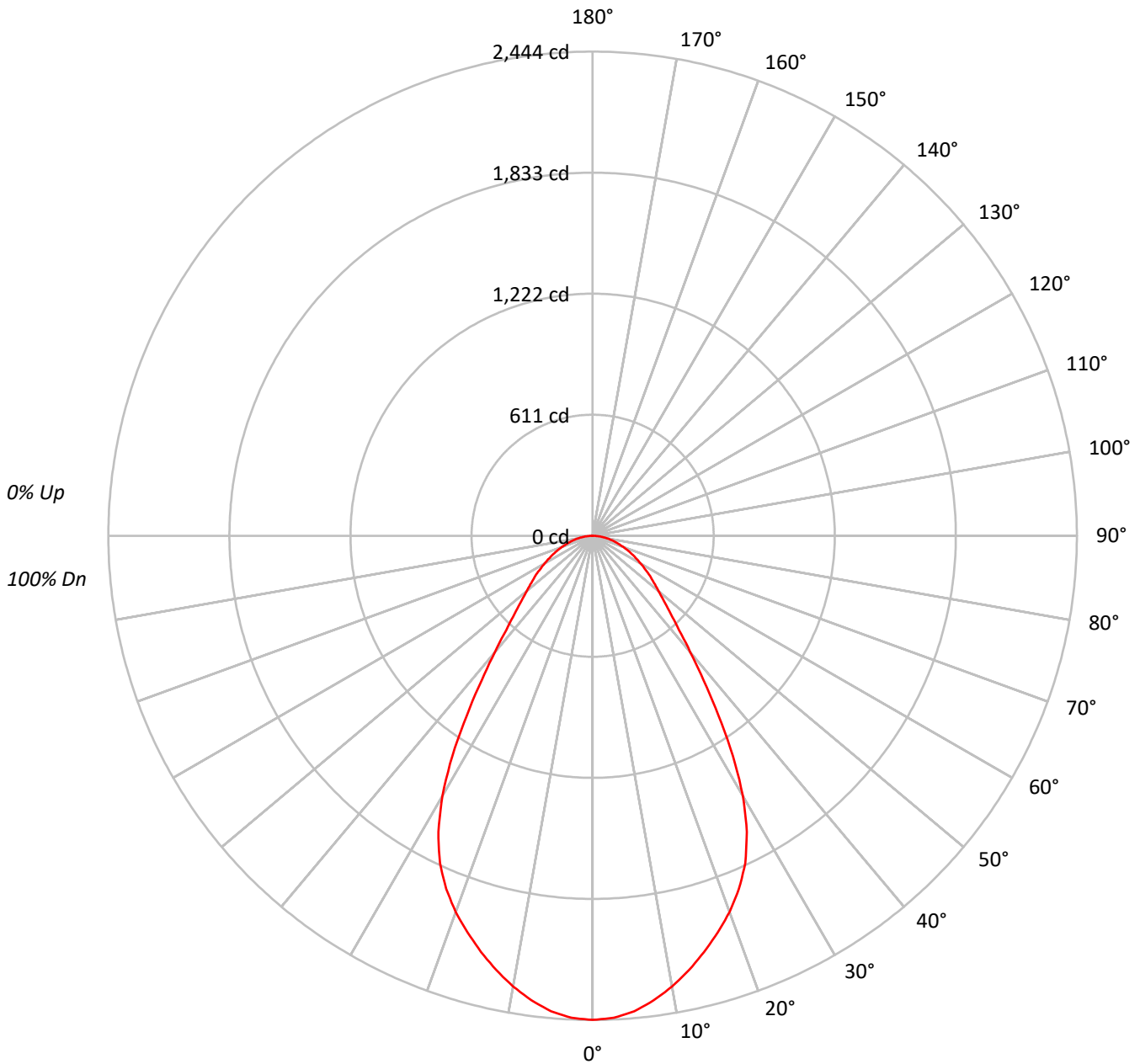
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	238139
5°	235693
10°	228621
15°	219449
20°	209572
25°	195990
30°	170603
35°	131645
40°	97402
45°	76645
50°	65832
55°	59860
60°	54577
65°	50503
70°	46675
75°	43755
80°	40634
85°	38354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	6.5
10°-20°	611.3	17.5
20°-30°	827.1	23.7
30°-40°	695.0	19.9
40°-50°	439.8	12.6
50°-60°	315.8	9.0
60°-70°	217.4	6.2
70°-80°	123.1	3.5
80°-90°	37.8	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°	1665.1	47.7
0°-40°	2360.1	67.5
0°-60°	3115.7	89.2
0°-90°	3493.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2444	
5°	2409	227
15°	2175	611
25°	1823	827
35°	1106	695
45°	556	440
55°	352	316
65°	219	217
75°	116	123
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2443.5
2.5°	2435.9
5°	2409.2
7.5°	2365.4
10°	2310.2
12.5°	2245.4
15°	2175.0
17.5°	2098.8
20°	2020.7
22.5°	1929.3
25°	1822.6
27.5°	1685.5
30°	1516.0
32.5°	1317.9
35°	1106.5
37.5°	919.9
40°	765.6
42.5°	645.6
45°	556.1
47.5°	487.6
50°	434.2
52.5°	390.4
55°	352.3
57.5°	314.2
60°	280.0
62.5°	247.6
65°	219.0
67.5°	190.5
70°	163.8
72.5°	139.0
75°	116.2
77.5°	93.3
80°	72.4
82.5°	53.3
85°	34.3
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)