

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: P252047

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252047
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: LD4B50D010TE EU4B30509050 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5425.0 lumens
Efficiency: N/A
Efficacy: 92.3 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

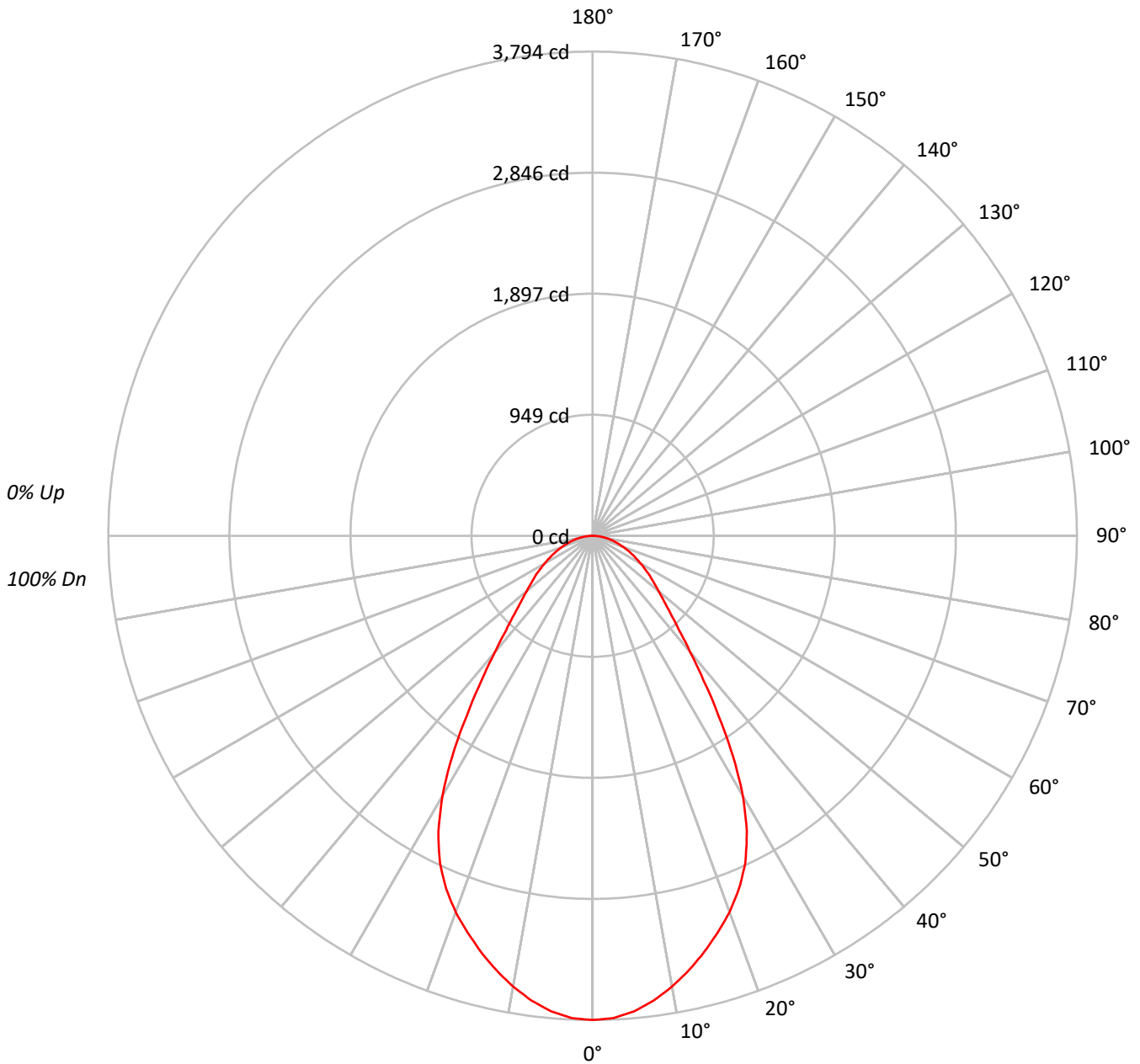
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	369756
5°	365954
10°	354975
15°	340726
20°	325399
25°	304308
30°	264896
35°	204410
40°	151242
45°	119013
50°	102221
55°	92959
60°	84730
65°	78429
70°	72462
75°	67929
80°	63083
85°	59489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	6.5
10°-20°	949.1	17.5
20°-30°	1284.2	23.7
30°-40°	1079.1	19.9
40°-50°	682.8	12.6
50°-60°	490.4	9.0
60°-70°	337.5	6.2
70°-80°	191.1	3.5
80°-90°	58.7	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°	2585.3	47.7
0°-40°	3664.4	67.5
0°-60°	4837.7	89.2
0°-90°	5425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5425.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3794	
5°	3741	352
15°	3377	949
25°	2830	1284
35°	1718	1079
45°	864	683
55°	547	490
65°	340	338
75°	180	191
85°	53	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3794.0
2.5°	3782.1
5°	3740.7
7.5°	3672.7
10°	3587.0
12.5°	3486.4
15°	3377.0
17.5°	3258.7
20°	3137.5
22.5°	2995.5
25°	2829.9
27.5°	2617.0
30°	2353.9
32.5°	2046.3
35°	1718.1
37.5°	1428.3
40°	1188.8
42.5°	1002.5
45°	863.5
47.5°	757.0
50°	674.2
52.5°	606.2
55°	547.1
57.5°	487.9
60°	434.7
62.5°	384.4
65°	340.1
67.5°	295.7
70°	254.3
72.5°	215.9
75°	180.4
77.5°	144.9
80°	112.4
82.5°	82.8
85°	53.2
87.5°	23.7
90°	0.0



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— 0°-180°







(END OF REPORT)