

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: P207612

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B50D010TE EU4B30509050 4LBMMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3546.2 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

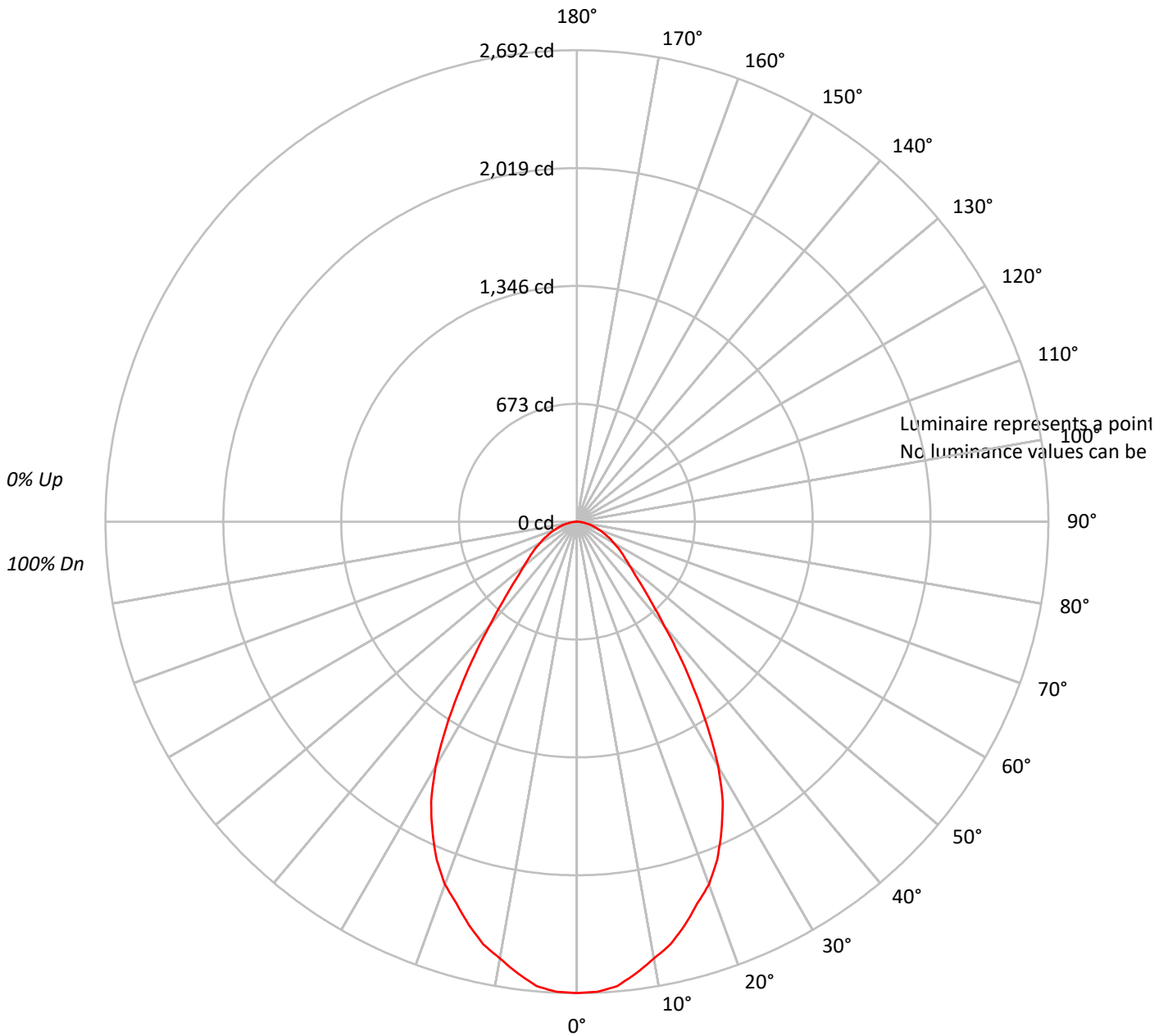
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80	80	80	80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64	64	64	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49	49	49	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45	45	45	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42	42	42	42
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	7.0
10°-20°	668.9	18.9
20°-30°	889.4	25.1
30°-40°	727.5	20.5
40°-50°	423.7	11.9
50°-60°	281.0	7.9
60°-70°	184.8	5.2
70°-80°	97.5	2.7
80°-90°	23.7	0.7
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°	1807.9	51.0
0°-40°	2535.4	71.5
0°-60°	3240.1	91.4
0°-90°	3546.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3546.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2692	
5°	2661	250
15°	2384	669
25°	1952	889
35°	1161	727
45°	534	424
55°	313	281
65°	185	185
75°	92	98
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2692.0
2.5°	2686.9
5°	2661.2
7.5°	2599.5
10°	2532.7
12.5°	2471.1
15°	2383.8
17.5°	2286.1
20°	2203.9
22.5°	2090.9
25°	1952.2
27.5°	1803.2
30°	1613.1
32.5°	1387.1
35°	1161.1
37.5°	955.6
40°	775.7
42.5°	637.0
45°	534.3
47.5°	452.1
50°	395.6
52.5°	349.3
55°	313.4
57.5°	277.4
60°	241.5
62.5°	215.8
65°	184.9
67.5°	159.3
70°	133.6
72.5°	113.0
75°	92.5
77.5°	71.9
80°	51.4
82.5°	36.0
85°	20.5
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)