

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: P207604

Luminaire Tested: **LD4B50D010TE EU4B30508035 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207604
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 EU4B30508035 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: 4173.3 lumens
Efficiency: N/A
Efficacy: 71.0 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

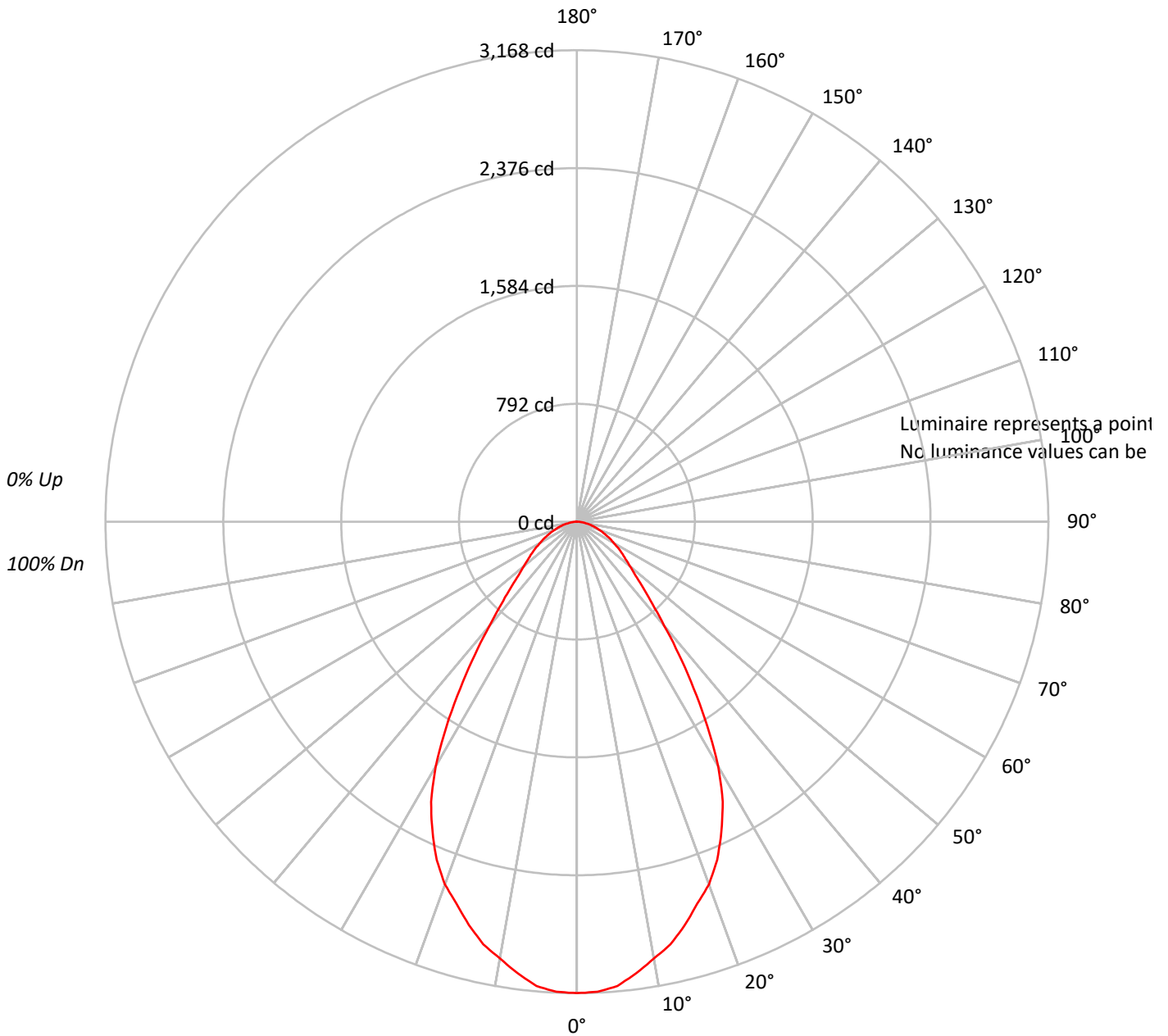
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	7.0
10°-20°	787.2	18.9
20°-30°	1046.8	25.1
30°-40°	856.1	20.5
40°-50°	498.6	11.9
50°-60°	330.7	7.9
60°-70°	217.5	5.2
70°-80°	114.7	2.7
80°-90°	27.9	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°	2127.6	51.0
0°-40°	2983.7	71.5
0°-60°	3813.1	91.4
0°-90°	4173.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4173.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3168	
5°	3132	294
15°	2805	787
25°	2298	1047
35°	1366	856
45°	629	499
55°	369	331
65°	218	217
75°	109	115
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3168.1
2.5°	3162.0
5°	3131.8
7.5°	3059.3
10°	2980.7
12.5°	2908.1
15°	2805.3
17.5°	2690.4
20°	2593.7
22.5°	2460.7
25°	2297.5
27.5°	2122.1
30°	1898.4
32.5°	1632.4
35°	1366.4
37.5°	1124.5
40°	912.9
42.5°	749.7
45°	628.8
47.5°	532.0
50°	465.5
52.5°	411.1
55°	368.8
57.5°	326.5
60°	284.2
62.5°	253.9
65°	217.7
67.5°	187.4
70°	157.2
72.5°	133.0
75°	108.8
77.5°	84.6
80°	60.5
82.5°	42.3
85°	24.2
87.5°	6.0
90°	0.0



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— 0°-180°







(END OF REPORT)