

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: P207251

Luminaire Tested: **LD4B15D010 EU4B10209050 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207251
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: LD4B15D010 EU4B10209050 4LBMWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1000.2 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

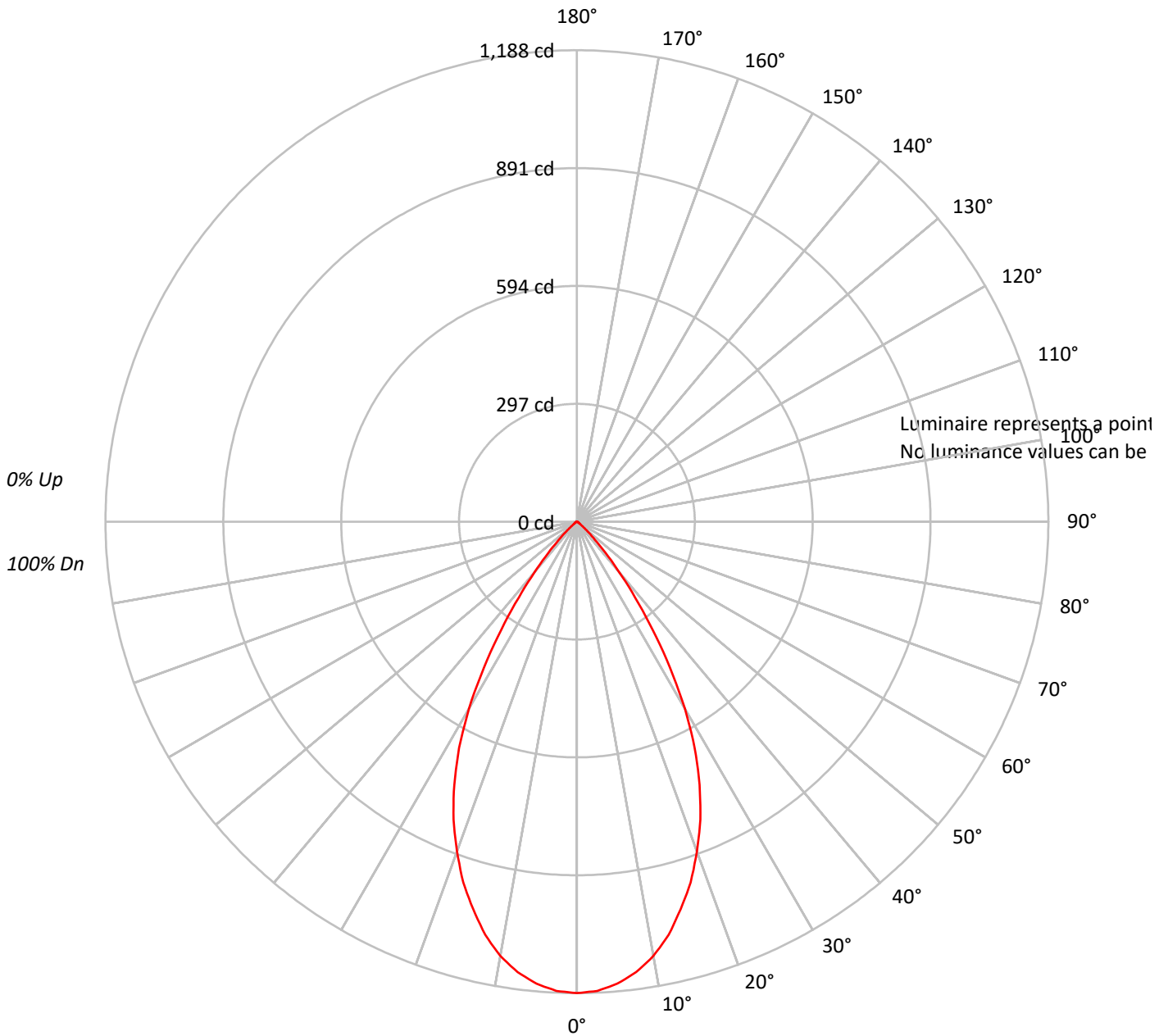
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94				
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81				
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66				
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62				
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58				
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55				
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	11.0
10°-20°	282.1	28.2
20°-30°	331.0	33.1
30°-40°	209.5	20.9
40°-50°	56.1	5.6
50°-60°	7.8	0.8
60°-70°	2.9	0.3
70°-80°	1.0	0.1
80°-90°	0.0	0.0
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°	722.9	72.3
0°-40°	932.4	93.2
0°-60°	996.3	99.6
0°-90°	1000.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1188	
5°	1169	110
15°	1011	282
25°	731	331
35°	332	209
45°	64	56
55°	7	8
65°	3	3
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1187.9
2.5°	1183.5
5°	1168.7
7.5°	1145.0
10°	1111.1
12.5°	1066.7
15°	1010.6
17.5°	953.0
20°	883.5
22.5°	812.6
25°	731.4
27.5°	642.7
30°	543.7
32.5°	435.9
35°	332.4
37.5°	240.8
40°	165.5
42.5°	106.4
45°	63.5
47.5°	35.5
50°	19.2
52.5°	10.3
55°	7.4
57.5°	5.9
60°	4.4
62.5°	4.4
65°	3.0
67.5°	1.5
70°	1.5
72.5°	1.5
75°	1.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)