

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: P208478

Luminaire Tested: **LD4B15D010 EU4B10209030 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208478
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 EU4B10209030 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 838.7 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

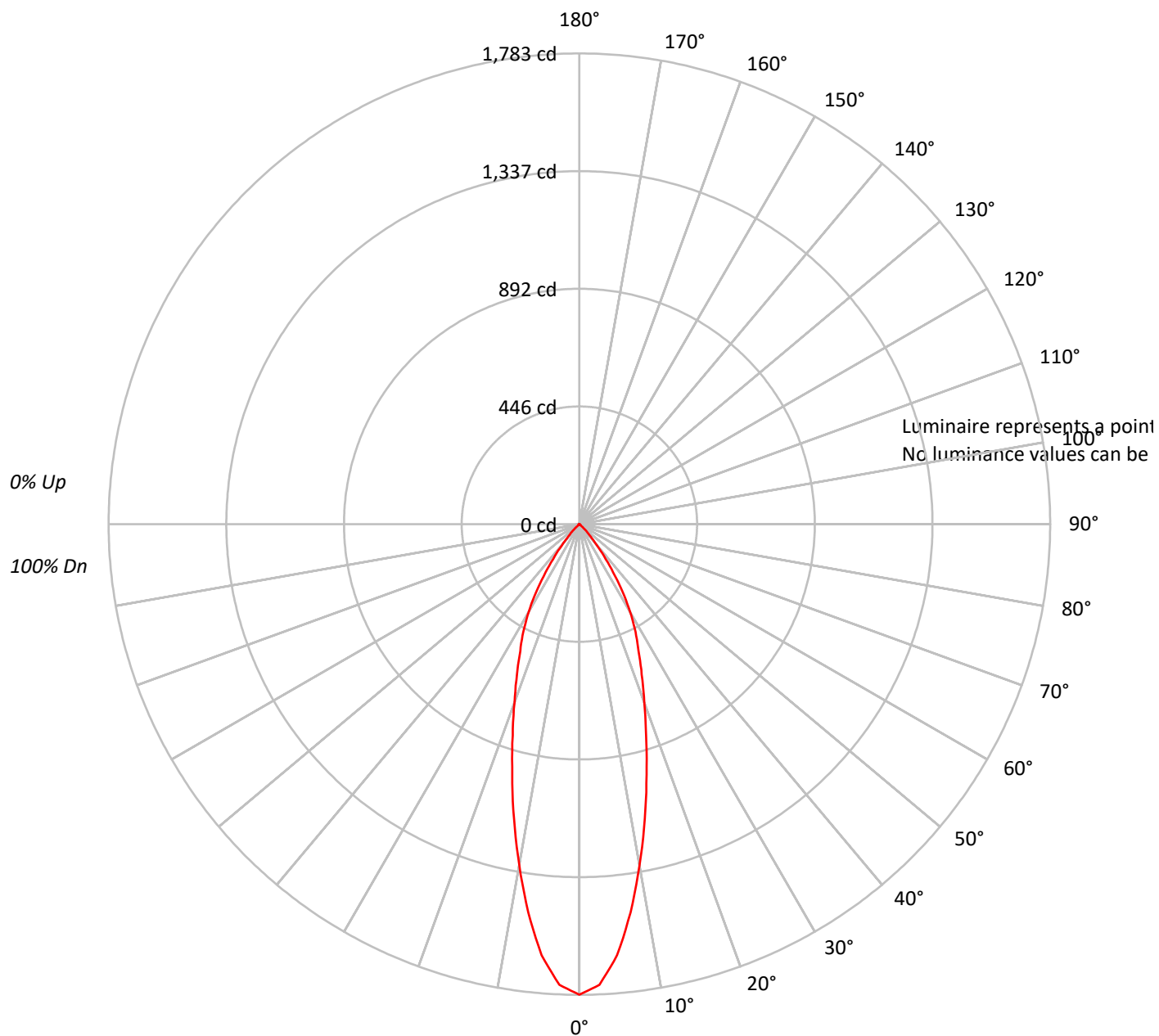
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





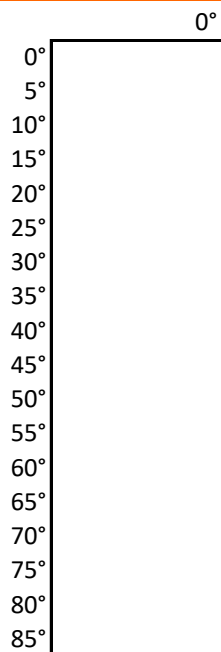
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95						
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89						
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84						
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79						
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75						
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71						
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67						
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64						
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61						
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58						

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	17.4
10°-20°	273.5	32.6
20°-30°	245.4	29.3
30°-40°	140.8	16.8
40°-50°	28.1	3.3
50°-60°	3.5	0.4
60°-70°	1.6	0.2
70°-80°	0.2	0.0
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°	664.6	79.2
0°-40°	805.4	96.0
0°-60°	837.0	99.8
0°-90°	838.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1783	
5°	1639	146
15°	982	273
25°	530	245
35°	223	141
45°	30	28
55°	4	4
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1782.7
2.5°	1746.5
5°	1639.3
7.5°	1482.9
10°	1312.0
12.5°	1144.0
15°	981.9
17.5°	839.9
20°	718.3
22.5°	616.9
25°	530.0
27.5°	460.5
30°	383.8
32.5°	305.6
35°	223.0
37.5°	152.1
40°	94.1
42.5°	56.5
45°	30.4
47.5°	13.0
50°	5.8
52.5°	4.3
55°	4.3
57.5°	2.9
60°	2.9
62.5°	1.4
65°	1.4
67.5°	1.4
70°	1.4
72.5°	0.0
75°	0.0
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)