

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: P407595

Luminaire Tested: **LE_4B15D010 EC4B10208035 4LBW3LI**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P407595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35232)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LE_4B15D010 EC4B10208035 4LBW3LI
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

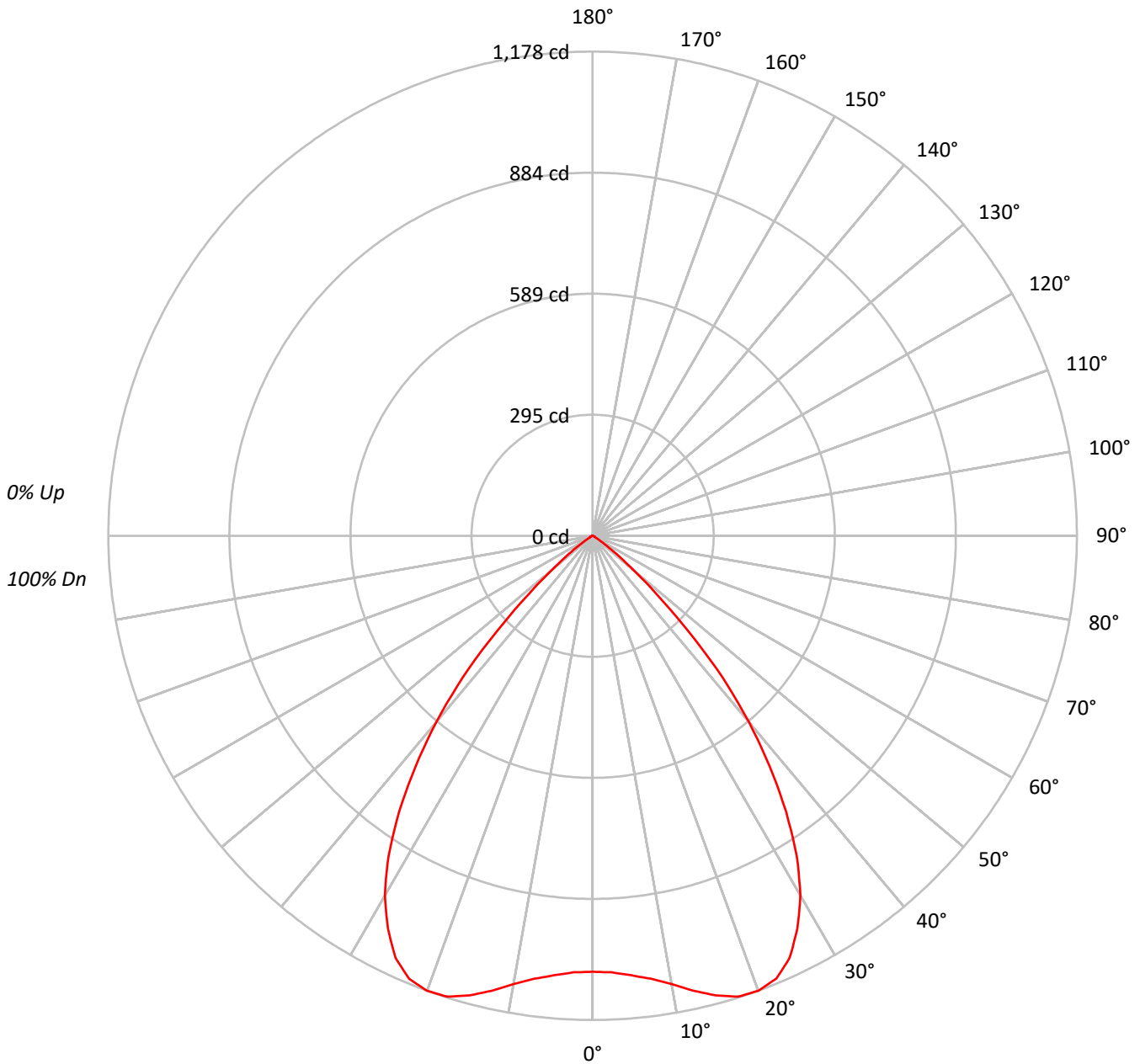
Lumens per Lamp: N/A
Luminaire Lumens: 1760.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.19
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77	77	77	77
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64	64	64	64
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49	49	49	49
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11487
5°	11667
10°	12178
15°	12977
20°	13575
25°	13546
30°	12638
35°	10848
40°	8350
45°	5072
50°	2187
55°	666
60°	173
65°	115
70°	73
75°	50
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	5.9
10°-20°	327.8	18.6
20°-30°	515.2	29.3
30°-40°	505.7	28.7
40°-50°	260.6	14.8
50°-60°	42.2	2.4
60°-70°	4.6	0.3
70°-80°	1.3	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°	946.5	53.7
0°-40°	1452.3	82.5
0°-60°	1755.1	99.7
0°-90°	1760.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1061	
5°	1073	103
15°	1158	328
25°	1134	515
35°	821	506
45°	331	261
55°	35	42
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1060.8
2.5°	1063.0
5°	1073.3
7.5°	1086.9
10°	1107.5
12.5°	1133.7
15°	1157.6
17.5°	1175.8
20°	1178.0
22.5°	1166.6
25°	1133.7
27.5°	1077.9
30°	1010.7
32.5°	924.2
35°	820.6
37.5°	707.9
40°	590.7
42.5°	467.8
45°	331.2
47.5°	212.9
50°	129.8
52.5°	72.8
55°	35.3
57.5°	15.9
60°	8.0
62.5°	5.7
65°	4.5
67.5°	3.4
70°	2.3
72.5°	1.2
75°	1.2
77.5°	1.2
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)