

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: P211210

Luminaire Tested: **LE_4B15D010 EC4B10209030 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211210
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: LE_4B15D010 EC4B10209030 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1546.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

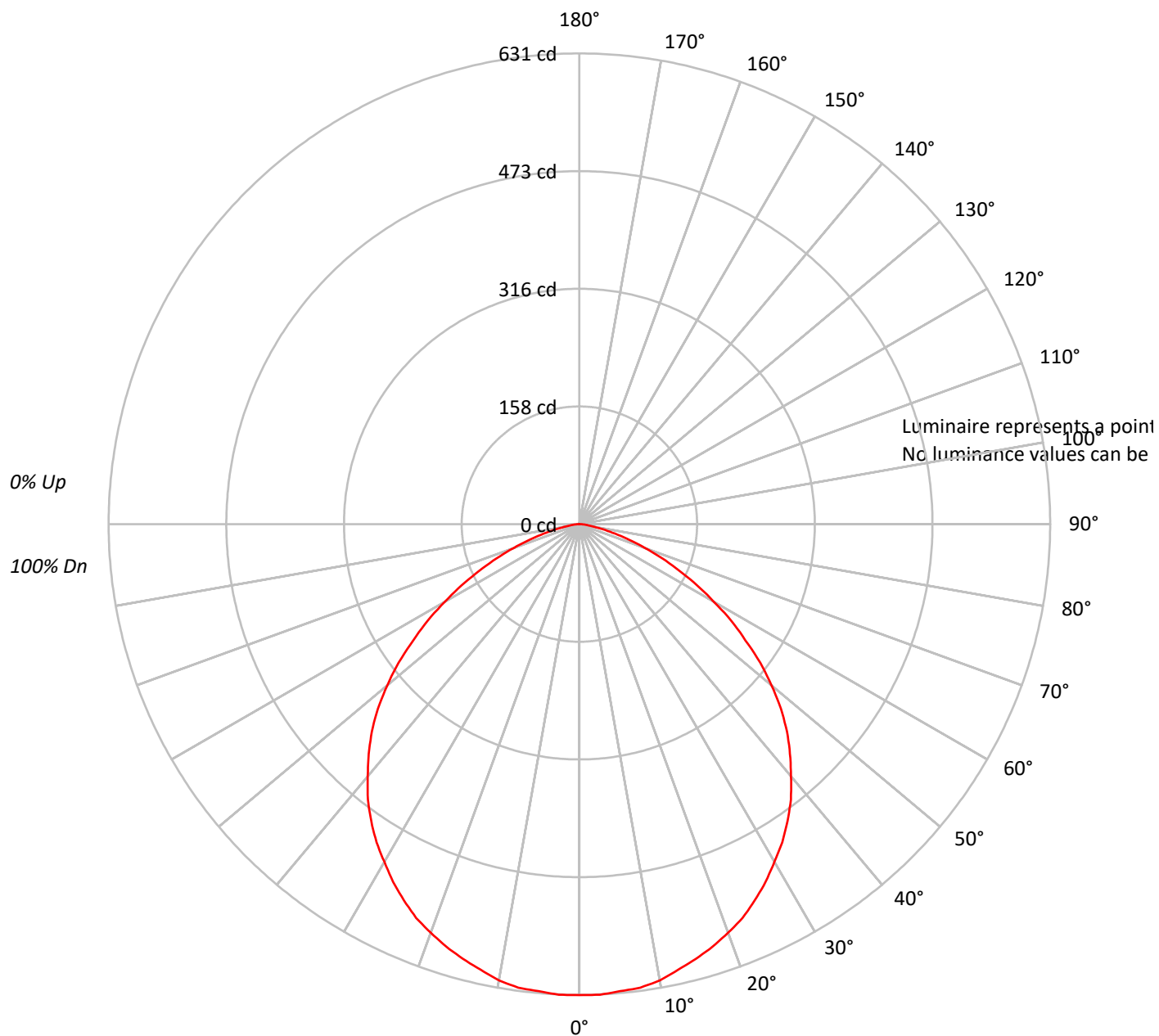
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87						
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74						
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63						
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55						
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48						
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42						
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37						
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33						
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30						
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27						

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.9
10°-20°	170.3	11.0
20°-30°	256.2	16.6
30°-40°	303.7	19.6
40°-50°	302.2	19.5
50°-60°	243.6	15.8
60°-70°	147.4	9.5
70°-80°	54.7	3.5
80°-90°	8.2	0.5
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°	486.4	31.5
0°-40°	790.0	51.1
0°-60°	1335.8	86.4
0°-90°	1546.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	631	
5°	629	60
15°	603	170
25°	556	256
35°	486	304
45°	394	302
55°	272	244
65°	148	147
75°	50	55
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	631.4
2.5°	631.4
5°	628.6
7.5°	626.7
10°	621.2
12.5°	611.8
15°	603.3
17.5°	593.9
20°	582.8
22.5°	571.5
25°	556.5
27.5°	540.6
30°	522.8
32.5°	505.9
35°	486.3
37.5°	465.6
40°	441.3
42.5°	417.8
45°	393.5
47.5°	366.3
50°	336.3
52.5°	305.4
55°	271.7
57.5°	241.7
60°	208.0
62.5°	178.1
65°	148.0
67.5°	119.9
70°	93.7
72.5°	70.3
75°	49.6
77.5°	31.9
80°	18.8
82.5°	11.3
85°	6.6
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)