

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: P211426

Luminaire Tested: **LE_4B15D010 EC4B10209050 4LBPS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211426
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 EC4B10209050 4LBPS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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: 1611.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

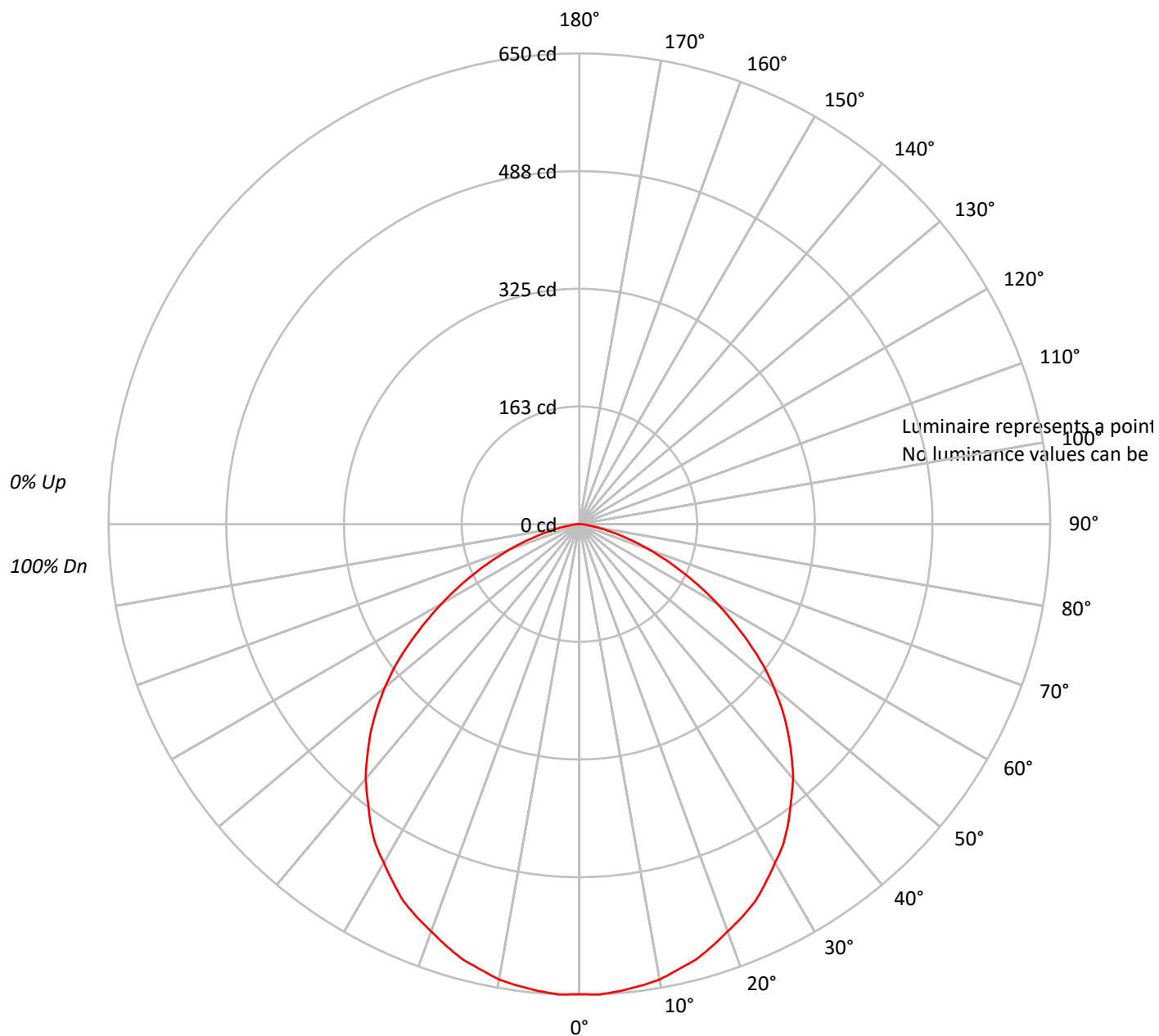
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





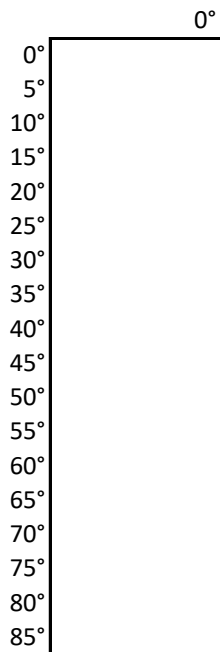
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.8
10°-20°	175.3	10.9
20°-30°	264.0	16.4
30°-40°	314.2	19.5
40°-50°	313.6	19.5
50°-60°	255.0	15.8
60°-70°	156.9	9.7
70°-80°	60.8	3.8
80°-90°	9.7	0.6
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°	500.8	31.1
0°-40°	815.0	50.6
0°-60°	1383.6	85.9
0°-90°	1611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	649	
5°	647	62
15°	622	175
25°	575	264
35°	503	314
45°	408	314
55°	285	255
65°	158	157
75°	55	61
85°	8	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	649.1
2.5°	650.1
5°	647.2
7.5°	643.3
10°	638.6
12.5°	630.0
15°	622.3
17.5°	610.9
20°	598.4
22.5°	587.1
25°	574.7
27.5°	557.5
30°	540.2
32.5°	524.1
35°	503.1
37.5°	480.1
40°	459.1
42.5°	433.4
45°	407.6
47.5°	379.9
50°	350.3
52.5°	319.8
55°	285.4
57.5°	252.0
60°	219.6
62.5°	188.0
65°	157.5
67.5°	128.9
70°	102.1
72.5°	77.4
75°	55.3
77.5°	36.3
80°	21.9
82.5°	13.3
85°	7.7
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)