

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: P211121

Luminaire Tested: **LE_4B15D010 EC4B10209027 4LBCSM1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211121
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 EC4B10209027 4LBCSM1B
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1392.2 lumens
Efficiency: N/A
Efficacy: 97.4 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

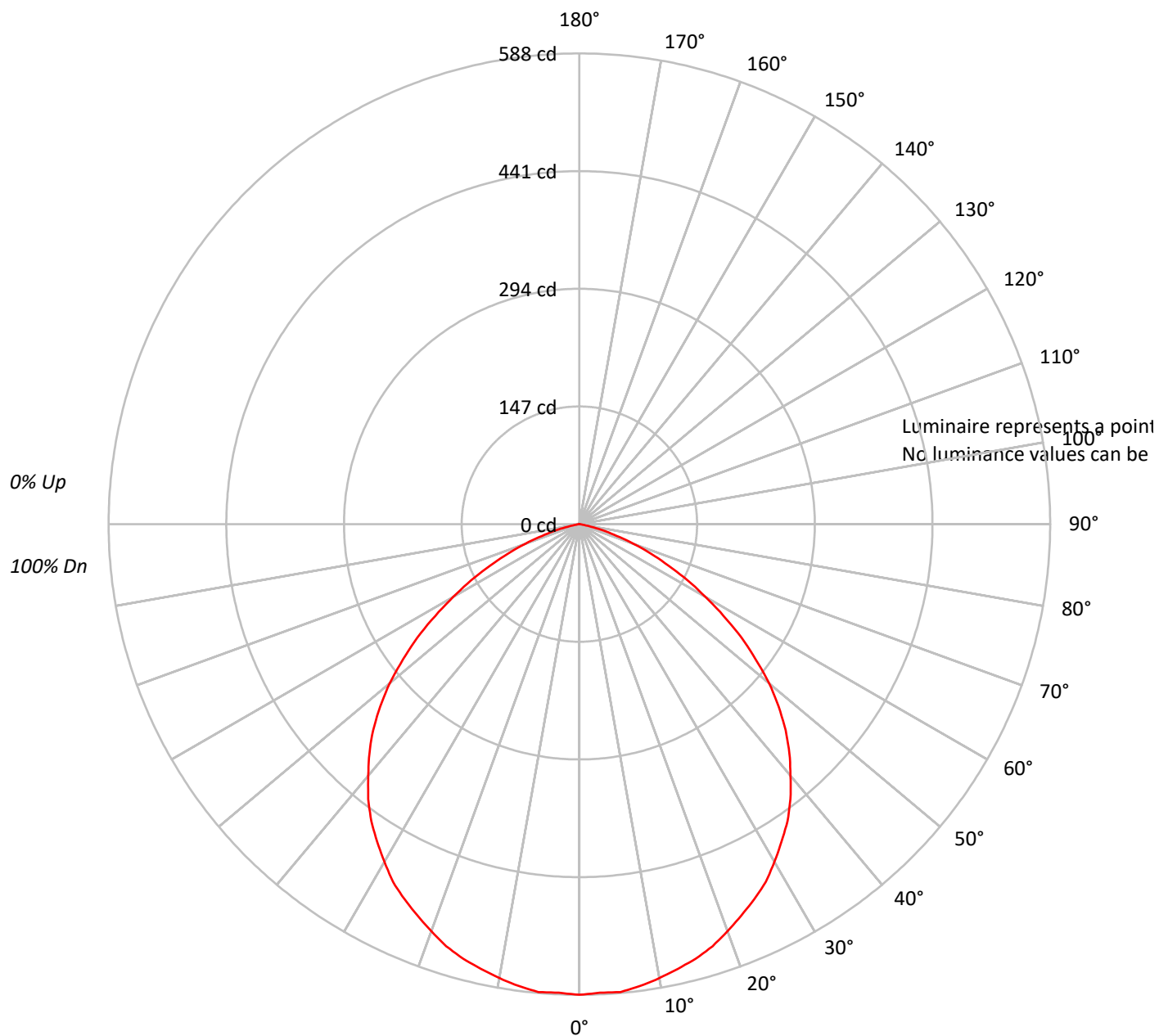
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	111	107	103	100	108	104	101	98		100	98	95		96	94	92		93	91	90
2	102	95	89	84	99	93	87	83		89	85	81		86	82	79		83	80	77
3	93	84	77	71	91	83	76	70		80	74	69		77	72	68		74	70	67
4	86	75	67	61	84	74	66	61		71	65	60		69	63	59		67	62	58
5	79	67	59	53	77	66	59	53		64	57	52		62	56	52		61	55	51
6	74	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	55	47	41	67	55	47	41		53	46	41		52	45	41		50	45	40
8	64	51	43	37	62	50	42	37		49	42	37		48	41	37		46	41	36
9	60	47	39	33	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	35	30	55	43	35	30		42	35	30		41	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	4.0
10°-20°	158.4	11.4
20°-30°	238.1	17.1
30°-40°	282.5	20.3
40°-50°	279.6	20.1
50°-60°	219.6	15.8
60°-70°	123.2	8.8
70°-80°	34.6	2.5
80°-90°	0.5	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°	452.2	32.5
0°-40°	734.7	52.8
0°-60°	1234.0	88.6
0°-90°	1392.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	588	
5°	587	56
15°	562	158
25°	517	238
35°	453	283
45°	364	280
55°	248	220
65°	123	123
75°	30	35
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	587.9
2.5°	585.9
5°	586.8
7.5°	581.9
10°	575.9
12.5°	568.9
15°	561.9
17.5°	553.0
20°	541.0
22.5°	529.0
25°	517.0
27.5°	504.0
30°	487.1
32.5°	470.1
35°	453.1
37.5°	433.1
40°	410.2
42.5°	388.3
45°	364.4
47.5°	337.3
50°	309.4
52.5°	277.5
55°	247.5
57.5°	213.6
60°	181.7
62.5°	152.7
65°	122.7
67.5°	96.9
70°	71.9
72.5°	49.0
75°	29.9
77.5°	15.0
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)