

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: P211424

Luminaire Tested: **LE_4B15D010 EC4B10209050 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211424
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 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH 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: 1078.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

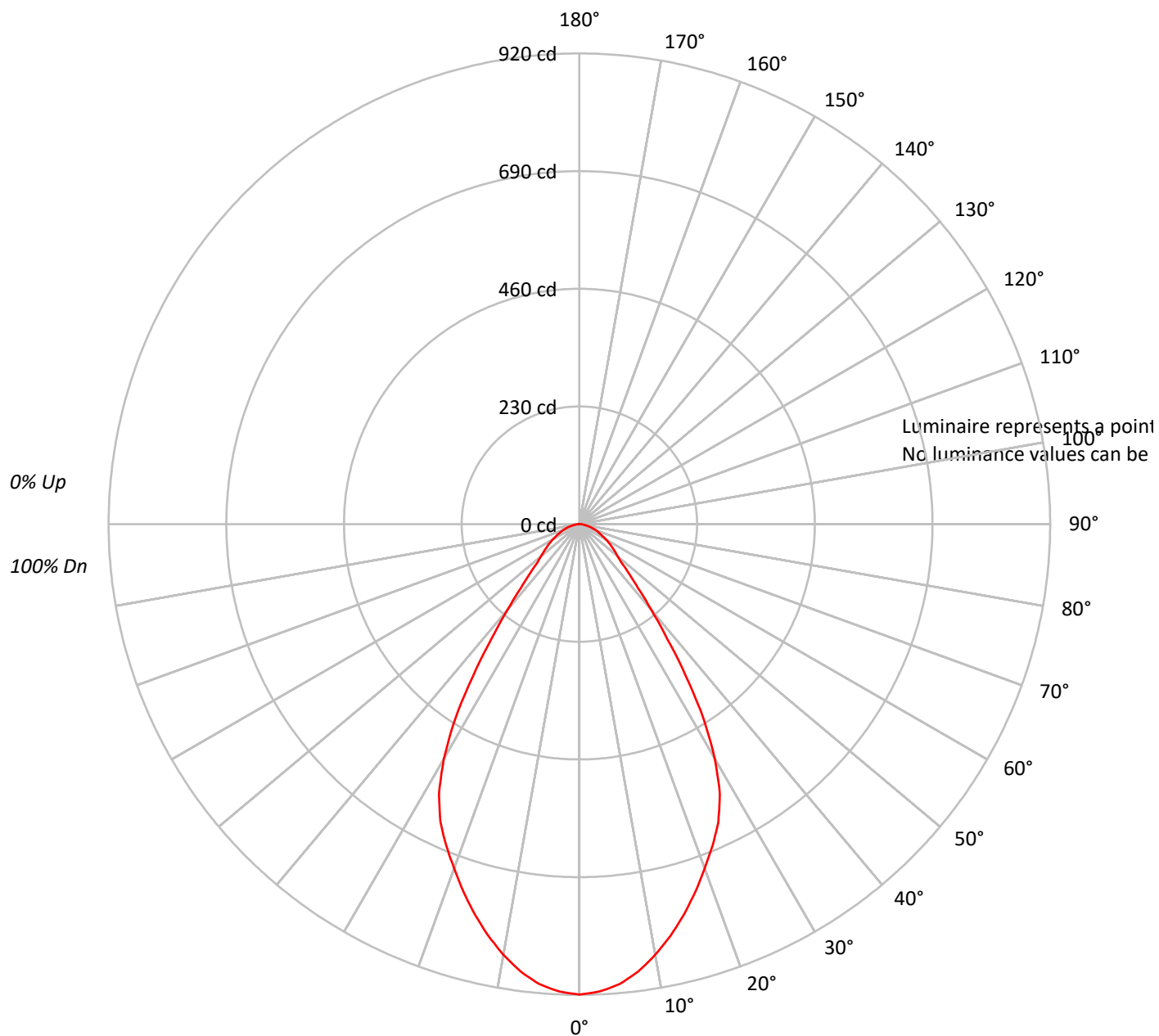
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





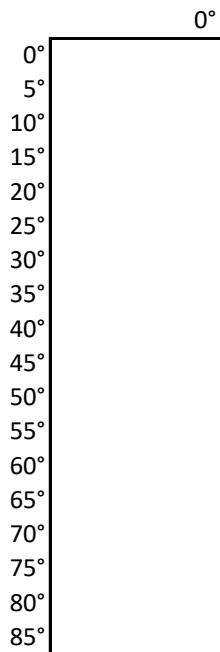
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48	48
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41	41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	7.8
10°-20°	221.4	20.5
20°-30°	291.4	27.0
30°-40°	226.8	21.0
40°-50°	110.2	10.2
50°-60°	69.6	6.5
60°-70°	44.9	4.2
70°-80°	23.5	2.2
80°-90°	5.8	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°	597.3	55.4
0°-40°	824.1	76.4
0°-60°	1003.9	93.1
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	920	
5°	902	85
15°	790	221
25°	642	291
35°	363	227
45°	137	110
55°	77	70
65°	44	45
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	919.6
2.5°	914.4
5°	902.5
7.5°	881.9
10°	854.6
12.5°	823.7
15°	789.5
17.5°	753.5
20°	715.8
22.5°	679.9
25°	642.2
27.5°	594.3
30°	529.2
32.5°	452.1
35°	363.1
37.5°	280.8
40°	217.5
42.5°	169.6
45°	137.0
47.5°	111.4
50°	97.6
52.5°	87.3
55°	77.0
57.5°	68.6
60°	60.0
62.5°	51.4
65°	44.5
67.5°	39.4
70°	32.5
72.5°	27.4
75°	22.3
77.5°	17.2
80°	11.9
82.5°	8.6
85°	5.1
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)