

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: P210927

Luminaire Tested: **LE_4B10D010 EC4B10209035 4LBN1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210927
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_4B10D010 EC4B10209035 4LBN1B
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR BLACK TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 418.8 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.79
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

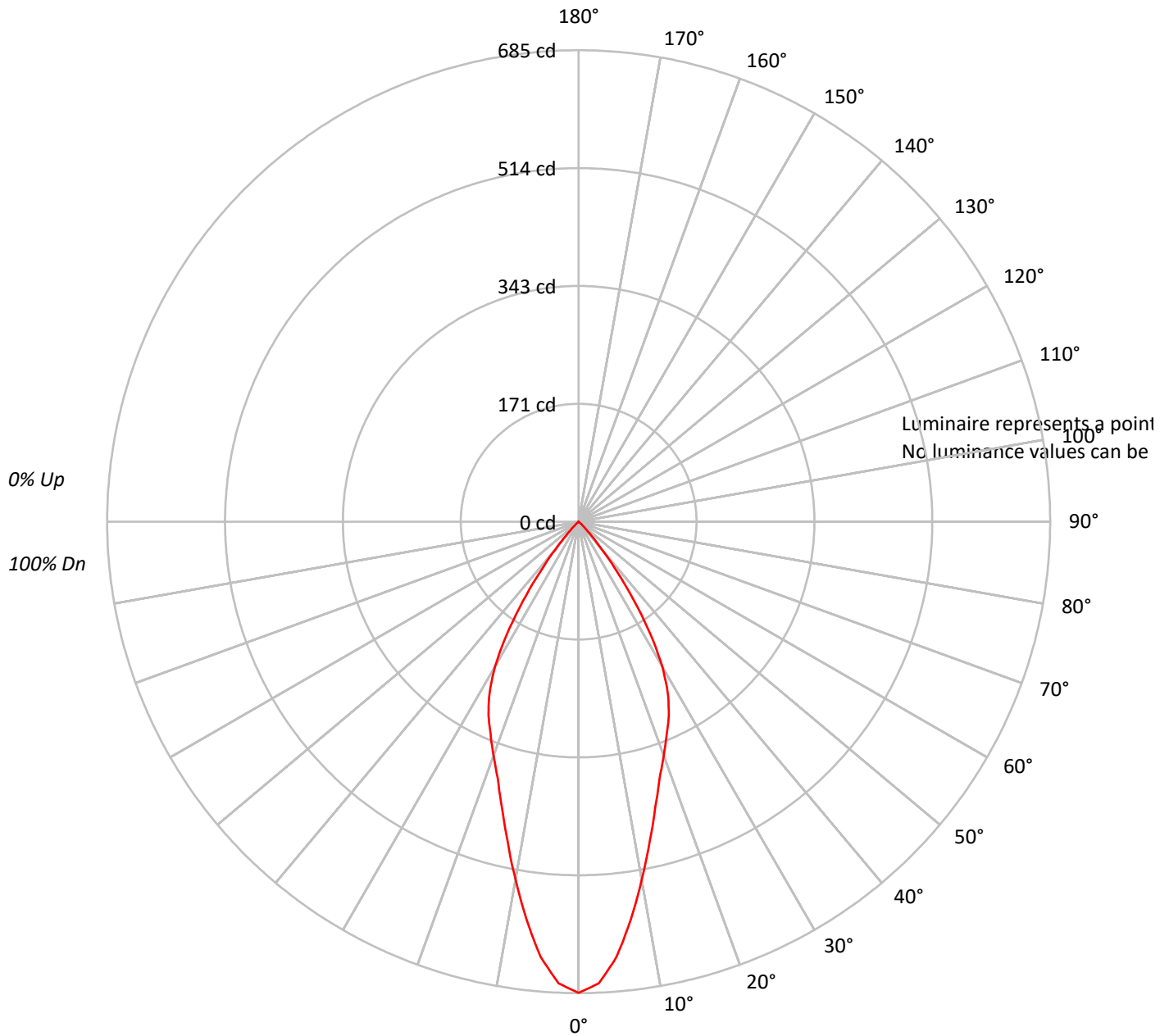
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





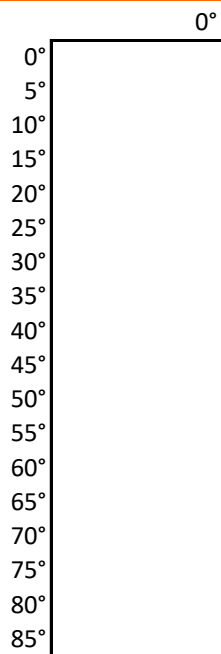
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	109	107		111	109	107	105		105	103	102		101	100	99		98	97	96
2	109	104	100	97		106	102	99	96		99	96	94		96	94	92		93	92	90
3	104	98	93	89		102	96	92	88		94	90	87		91	88	86		89	86	84
4	99	92	86	82		97	90	86	82		88	84	81		86	83	80		85	82	79
5	94	86	81	77		92	85	80	76		84	79	76		82	78	75		80	77	74
6	90	81	76	72		88	81	75	71		79	74	71		78	74	70		76	73	70
7	86	77	71	67		84	76	71	67		75	70	67		74	69	66		73	69	66
8	82	73	67	63		80	72	67	63		71	66	63		70	66	62		69	65	62
9	78	69	63	60		77	68	63	59		67	63	59		67	62	59		66	62	59
10	75	65	60	56		74	65	60	56		64	59	56		63	59	56		63	59	56

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	13.6
10°-20°	121.0	28.9
20°-30°	140.4	33.5
30°-40°	87.9	21.0
40°-50°	12.4	3.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	318.5	76.1
0°-40°	406.4	97.0
0°-60°	418.8	100.0
0°-90°	418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	418.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	685	
5°	634	57
15°	430	121
25°	310	140
35°	141	88
45°	11	12
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	684.7
2.5°	671.3
5°	634.5
7.5°	581.9
10°	527.9
12.5°	476.5
15°	430.0
17.5°	390.8
20°	361.3
22.5°	334.4
25°	310.0
27.5°	280.5
30°	242.6
32.5°	194.8
35°	140.8
37.5°	91.9
40°	52.7
42.5°	26.9
45°	11.0
47.5°	2.4
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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)