

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: P211051

Luminaire Tested: **LE_4B10D010 EC4B10209050 4LBS1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211051
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 EC4B10209050 4LBS1GPH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 977.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

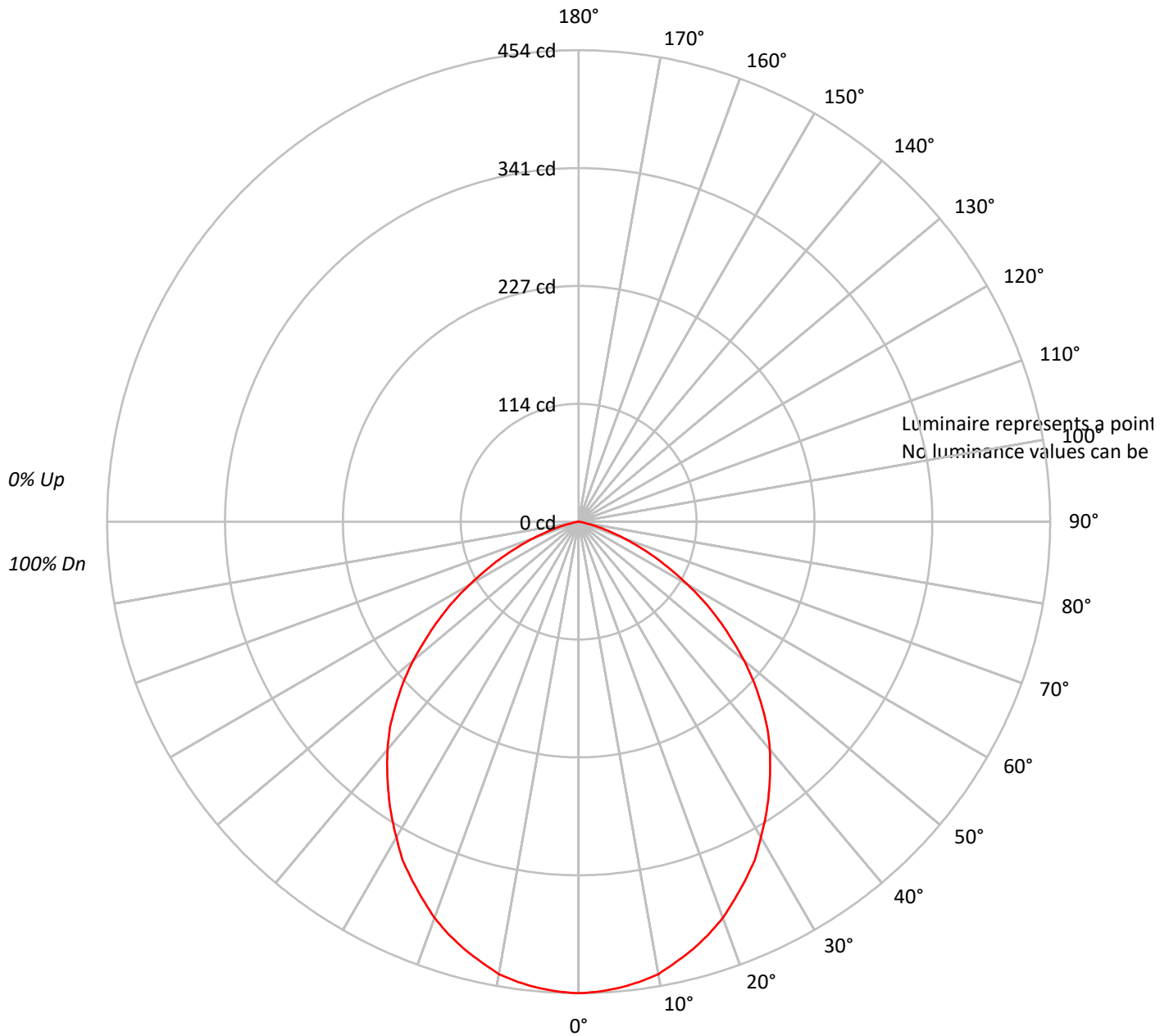
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	83	77	71	80	75	70		78	73	69		75
4	87	76	68	62	85	75	67	62	72	66	61		70	65	60		68
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62
6	74	62	54	48	73	61	53	48	59	52	47		58	52	47		56
7	69	57	48	43	68	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	36	32	43	36	31		42	36	31		41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	4.4
10°-20°	120.0	12.3
20°-30°	175.1	17.9
30°-40°	199.6	20.4
40°-50°	191.5	19.6
50°-60°	146.7	15.0
60°-70°	80.5	8.2
70°-80°	21.4	2.2
80°-90°	0.3	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°	337.8	34.5
0°-40°	537.5	55.0
0°-60°	875.7	89.5
0°-90°	977.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	454	
5°	451	43
15°	426	120
25°	380	175
35°	319	200
45°	249	192
55°	164	147
65°	81	81
75°	19	21
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	454.1
2.5°	453.0
5°	450.7
7.5°	447.1
10°	442.4
12.5°	434.2
15°	426.0
17.5°	416.6
20°	406.0
22.5°	393.1
25°	380.2
27.5°	367.3
30°	350.9
32.5°	335.6
35°	319.2
37.5°	302.8
40°	286.3
42.5°	268.8
45°	248.8
47.5°	228.9
50°	207.8
52.5°	185.4
55°	164.3
57.5°	143.1
60°	120.9
62.5°	99.8
65°	81.0
67.5°	62.2
70°	45.8
72.5°	30.5
75°	18.8
77.5°	8.2
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)