

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: P210734

Luminaire Tested: **LE_4B10D010 EC4B10208027 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210734
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 EC4B10208027 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR 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: 1220.3 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

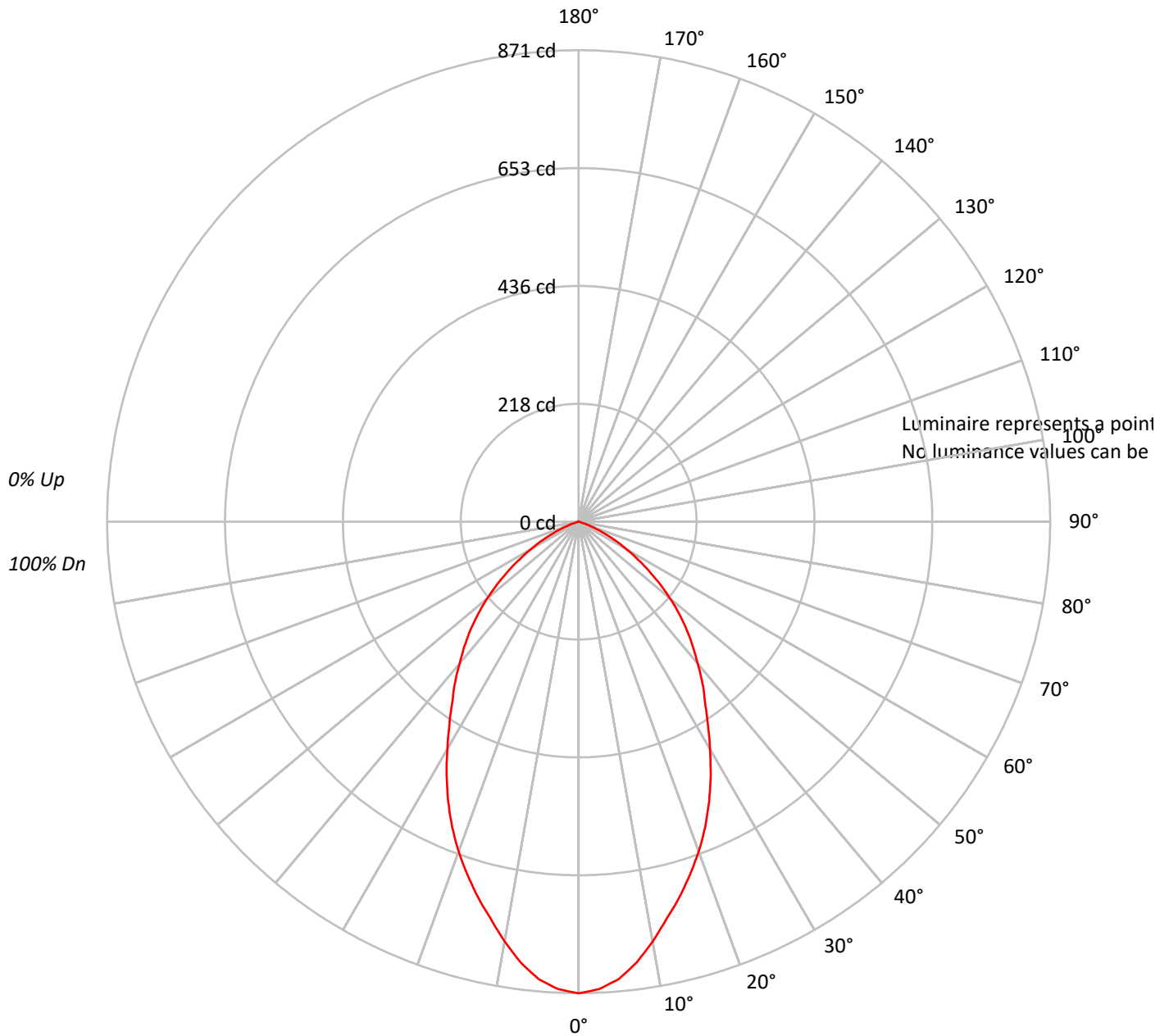
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71	71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	6.5
10°-20°	201.5	16.5
20°-30°	261.1	21.4
30°-40°	255.8	21.0
40°-50°	216.8	17.8
50°-60°	142.2	11.7
60°-70°	57.1	4.7
70°-80°	6.6	0.5
80°-90°	0.2	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°	541.6	44.4
0°-40°	797.4	65.3
0°-60°	1156.4	94.8
0°-90°	1220.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	871	
5°	848	79
15°	719	201
25°	570	261
35°	407	256
45°	282	217
55°	158	142
65°	55	57
75°	3	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	871.4
2.5°	864.5
5°	848.4
7.5°	821.4
10°	787.5
12.5°	751.1
15°	718.7
17.5°	683.6
20°	648.4
22.5°	610.6
25°	570.1
27.5°	528.1
30°	485.0
32.5°	444.4
35°	406.6
37.5°	375.6
40°	341.7
42.5°	312.0
45°	282.3
47.5°	251.3
50°	220.2
52.5°	189.1
55°	158.1
57.5°	129.7
60°	102.7
62.5°	78.3
65°	55.3
67.5°	36.4
70°	21.6
72.5°	9.5
75°	2.7
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)