

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: P210824

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBS1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210824
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 EC4B10208030 4LBS1WMH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM 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: 1240.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

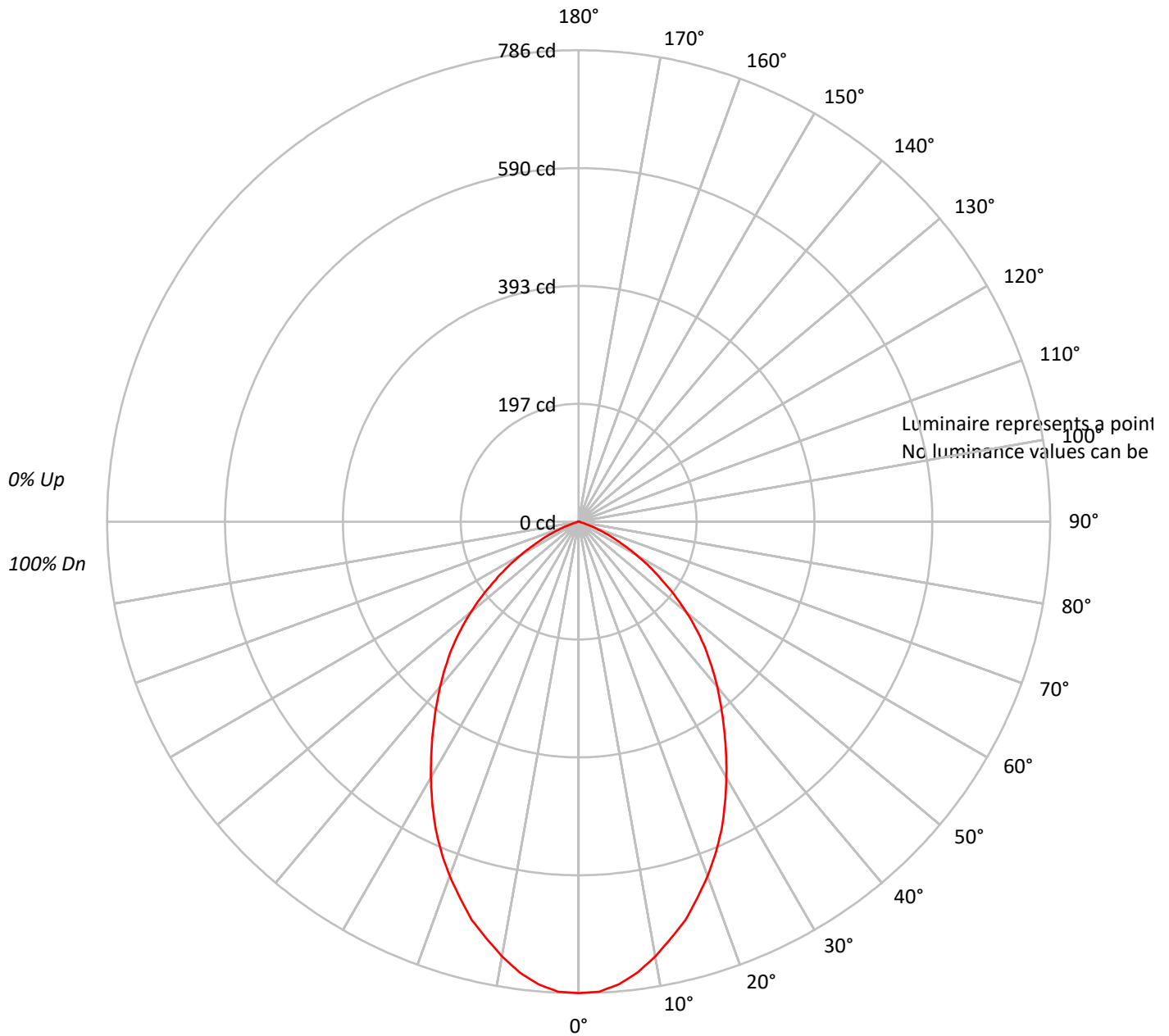
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102		109	106	103	101		102	100	97		98	96	94		95	93	92
2	104	98	92	88		102	96	91	87		92	88	85		89	86	83		86	84	81
3	96	88	82	76		94	87	81	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67		88	79	72	67		76	70	66		74	69	65		72	68	64
5	83	73	65	59		82	72	64	59		70	63	59		68	62	58		66	61	57
6	78	66	59	53		76	65	58	53		64	57	53		62	57	52		61	56	52
7	73	61	53	48		71	60	53	48		59	52	48		57	52	47		56	51	47
8	68	56	49	44		67	56	48	43		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		50	44	40		49	44	39		49	43	39
10	60	48	41	37		59	48	41	37		47	41	36		46	40	36		45	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	5.9
10°-20°	192.5	15.5
20°-30°	258.6	20.8
30°-40°	264.7	21.3
40°-50°	229.1	18.5
50°-60°	152.4	12.3
60°-70°	62.6	5.0
70°-80°	7.4	0.6
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°	523.7	42.2
0°-40°	788.4	63.6
0°-60°	1169.9	94.3
0°-90°	1240.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	786	
5°	774	73
15°	688	193
25°	564	259
35°	423	265
45°	298	229
55°	169	152
65°	62	63
75°	3	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	786.0
2.5°	784.4
5°	773.8
7.5°	757.6
10°	735.7
12.5°	711.2
15°	687.6
17.5°	657.6
20°	628.4
22.5°	597.4
25°	564.1
27.5°	528.4
30°	492.5
32.5°	456.8
35°	422.7
37.5°	390.2
40°	359.3
42.5°	328.4
45°	298.4
47.5°	266.6
50°	234.1
52.5°	201.6
55°	169.1
57.5°	140.6
60°	111.4
62.5°	84.6
65°	61.8
67.5°	40.6
70°	23.5
72.5°	11.4
75°	3.2
77.5°	1.6
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)