

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: P211662

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBS1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211662
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_4B20D010 EC4B10208035 4LBS1LI
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-21.86W DE010-20.46W D5LT-21.24W DMX-20.89W DL2-22.5W
DL3-21.8 6W DLE-22.46W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2465.6 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

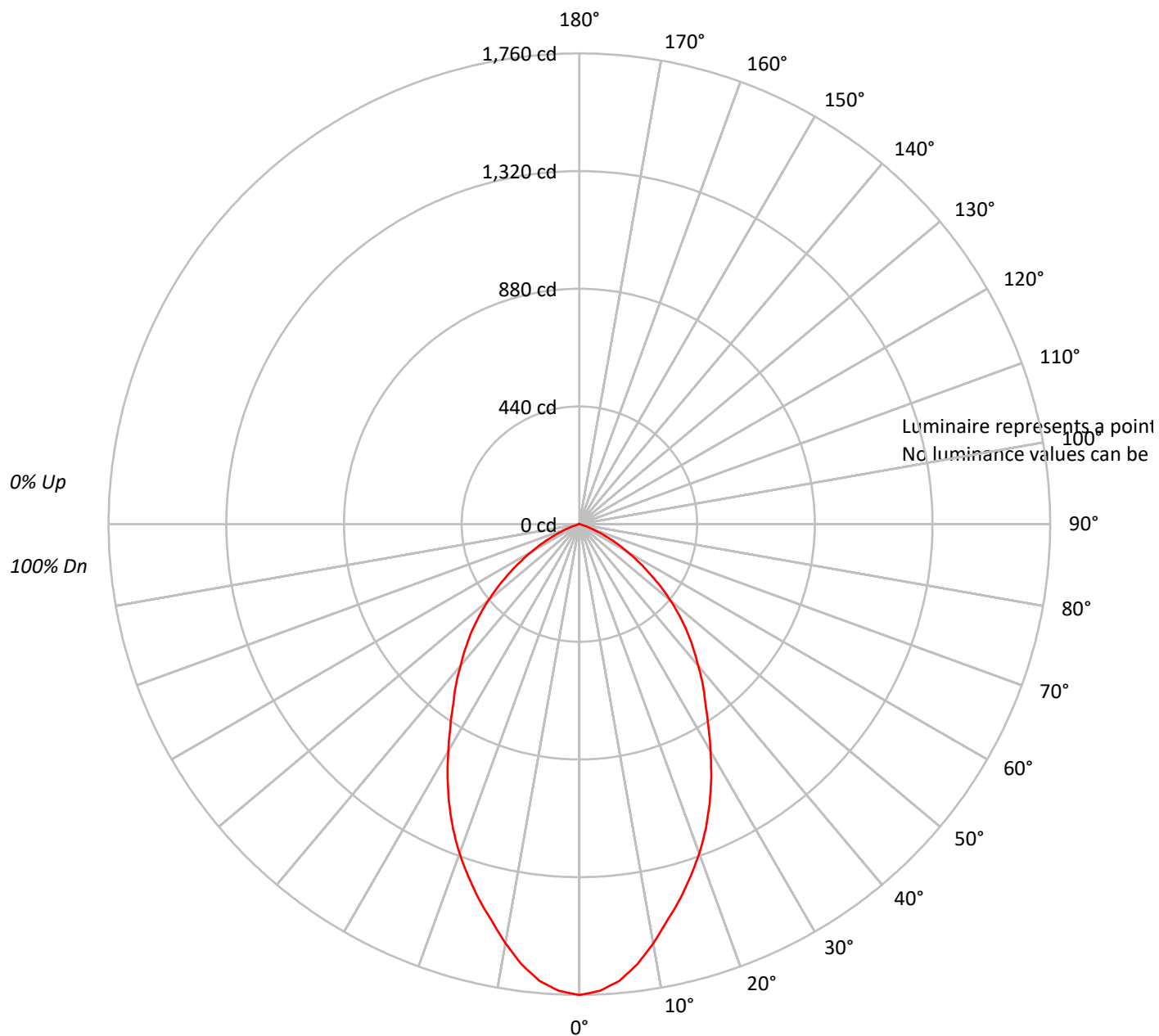
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101		102	100	98			98	96	95			95
2	104	98	93	88	102	96	91	87		93	89	85			90	86	84			87
3	97	89	82	77	95	87	81	77		84	79	75			82	78	74			79
4	90	81	73	68	88	79	73	68		77	71	67			75	70	66			73
5	84	73	66	61	82	72	65	60		70	64	60			69	63	59			67
6	79	67	60	54	77	66	59	54		65	58	54			63	58	53			62
7	74	62	54	49	72	61	54	49		60	53	49			58	53	48			57
8	69	57	50	45	68	57	50	45		55	49	45			54	49	44			53
9	65	53	46	41	64	53	46	41		52	45	41			51	45	41			50
10	61	50	43	38	60	49	42	38		48	42	38			47	42	38			46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	6.5
10°-20°	407.1	16.5
20°-30°	527.6	21.4
30°-40°	516.9	21.0
40°-50°	438.2	17.8
50°-60°	287.2	11.6
60°-70°	115.4	4.7
70°-80°	13.2	0.5
80°-90°	0.4	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°	1094.3	44.4
0°-40°	1611.2	65.3
0°-60°	2336.6	94.8
0°-90°	2465.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1760	
5°	1714	160
15°	1452	407
25°	1152	528
35°	822	517
45°	570	438
55°	319	287
65°	112	115
75°	6	13
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1760.5
2.5°	1746.8
5°	1714.1
7.5°	1659.5
10°	1591.3
12.5°	1517.6
15°	1452.1
17.5°	1381.1
20°	1310.2
22.5°	1233.8
25°	1151.9
27.5°	1067.2
30°	979.9
32.5°	898.0
35°	821.6
37.5°	758.8
40°	690.5
42.5°	630.6
45°	570.5
47.5°	507.7
50°	444.9
52.5°	382.1
55°	319.3
57.5°	262.0
60°	207.4
62.5°	158.3
65°	111.9
67.5°	73.7
70°	43.6
72.5°	19.1
75°	5.5
77.5°	2.8
80°	2.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)