

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: P211468

Luminaire Tested: **LE_4B20D010 EC4B10209024 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211468
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 EC4B10209024 4LBW1WH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 1472.7 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

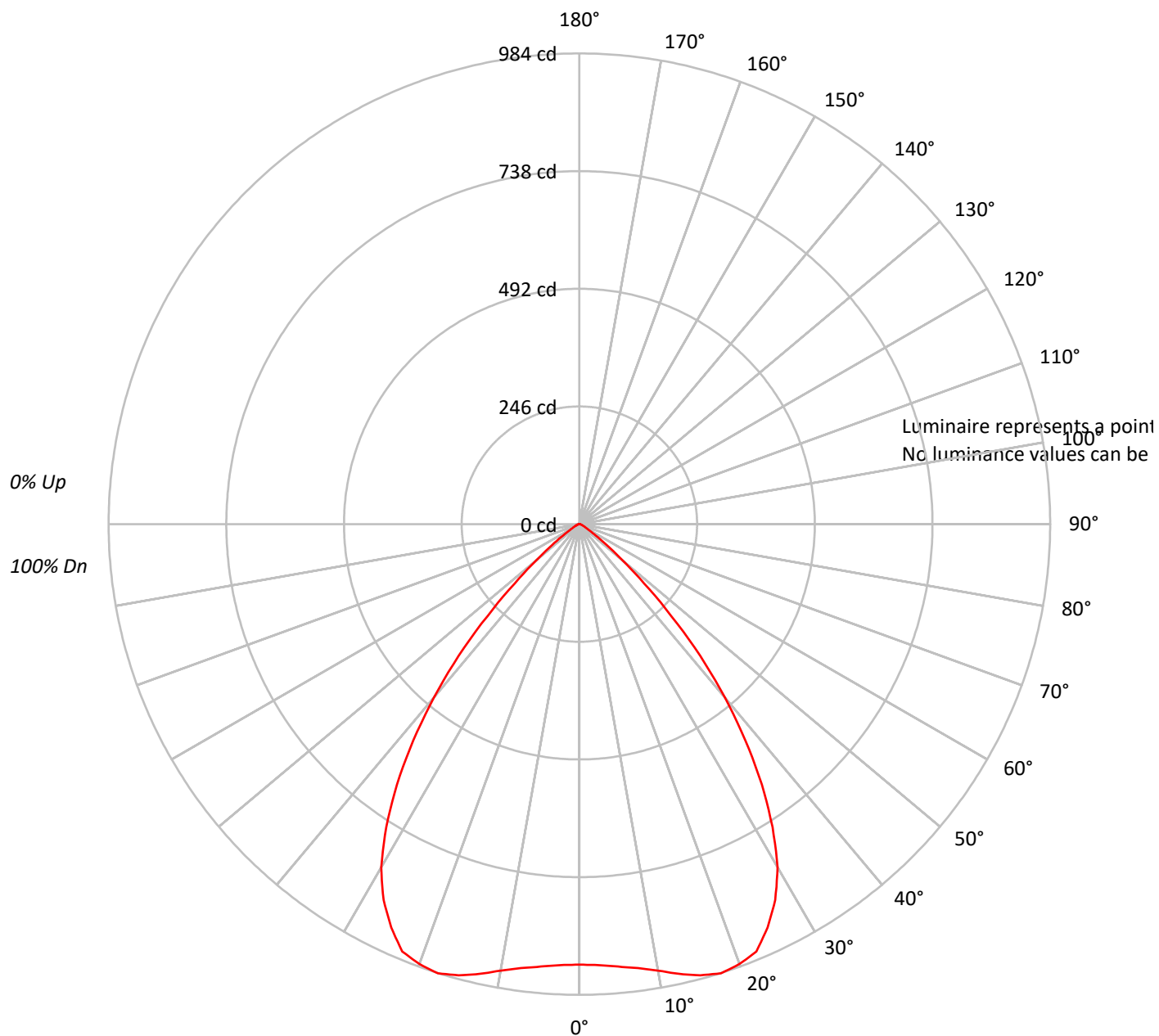
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100		100	98	97		96
2	106	101	96	92	104	99	95	91	96	92	89		93	90	87		90
3	100	93	87	82	98	91	86	82	88	84	80		86	82	79		84
4	94	85	79	74	92	84	78	74	82	77	73		80	75	72		78
5	88	79	72	67	86	78	71	67	76	70	66		74	69	65		72
6	83	73	66	61	81	72	65	61	70	64	60		69	64	60		67
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63
8	73	62	56	51	72	62	55	51	61	55	51		60	54	50		59
9	69	58	51	47	68	58	51	47	57	51	47		56	50	47		55
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	6.1
10°-20°	276.0	18.7
20°-30°	424.6	28.8
30°-40°	409.6	27.8
40°-50°	213.6	14.5
50°-60°	45.0	3.1
60°-70°	10.4	0.7
70°-80°	4.1	0.3
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°	789.8	53.6
0°-40°	1199.4	81.4
0°-60°	1457.9	99.0
0°-90°	1472.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	921	
5°	928	89
15°	977	276
25°	930	425
35°	665	410
45°	272	214
55°	40	45
65°	10	10
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	920.8
2.5°	922.7
5°	928.5
7.5°	936.2
10°	947.7
12.5°	963.1
15°	976.6
17.5°	984.4
20°	978.6
22.5°	967.0
25°	930.4
27.5°	886.1
30°	828.4
32.5°	751.2
35°	664.6
37.5°	570.1
40°	472.0
42.5°	373.8
45°	271.6
47.5°	183.0
50°	117.5
52.5°	71.2
55°	40.5
57.5°	25.1
60°	17.3
62.5°	13.5
65°	9.6
67.5°	7.7
70°	5.8
72.5°	5.8
75°	3.8
77.5°	2.0
80°	2.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)