

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: P211669

Luminaire Tested: **LE_4B20D010 EC4B10208035 4LBW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211669
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 4LBW1LI
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 2383.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

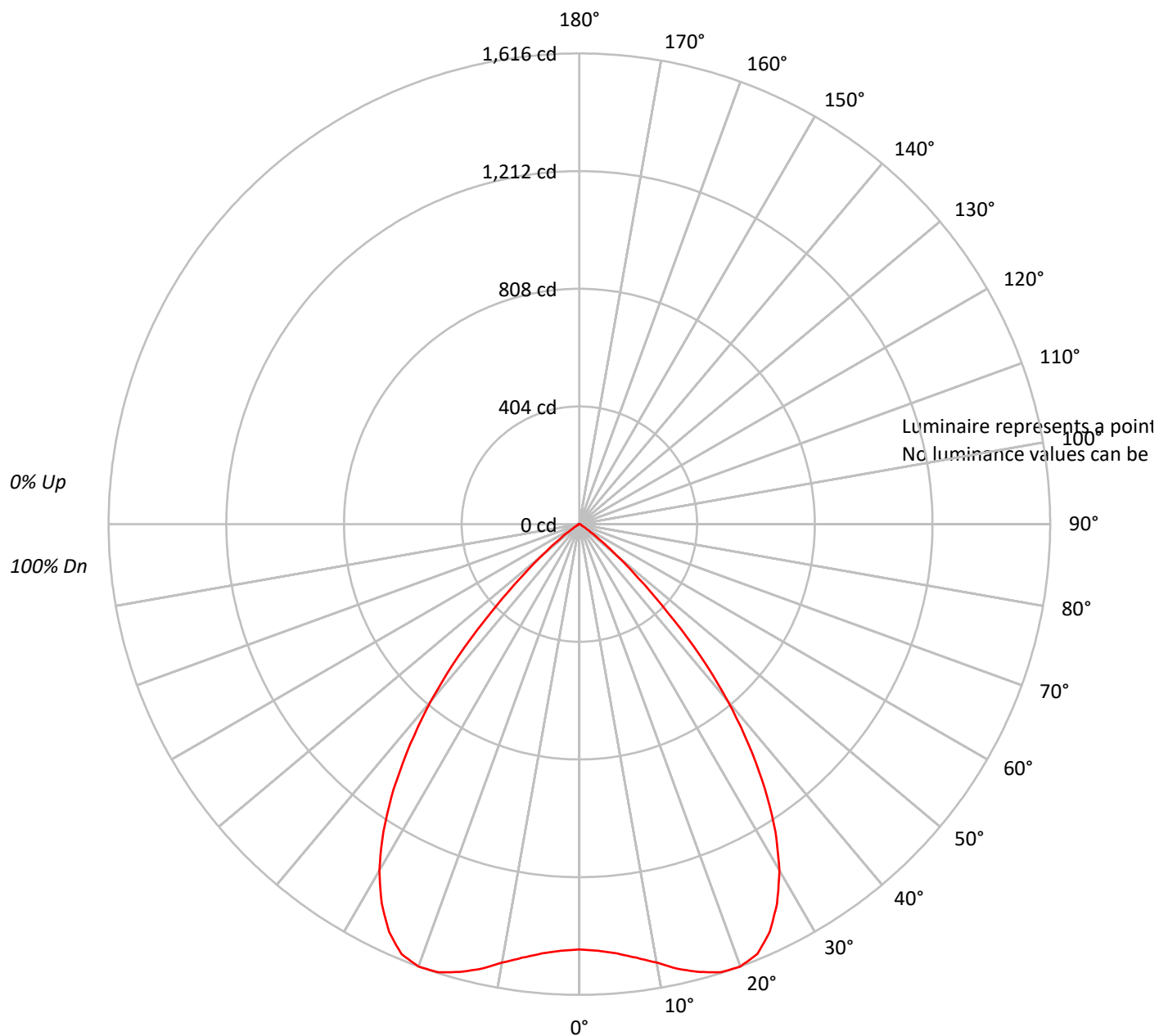
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	6.0
10°-20°	450.7	18.9
20°-30°	703.2	29.5
30°-40°	684.2	28.7
40°-50°	341.7	14.3
50°-60°	52.9	2.2
60°-70°	6.4	0.3
70°-80°	1.8	0.1
80°-90°	0.0	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°	1296.7	54.4
0°-40°	1980.9	83.1
0°-60°	2375.6	99.7
0°-90°	2383.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1461	
5°	1480	143
15°	1592	451
25°	1545	703
35°	1111	684
45°	429	342
55°	44	53
65°	6	6
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1460.6
2.5°	1466.0
5°	1479.7
7.5°	1501.5
10°	1528.8
12.5°	1564.3
15°	1591.6
17.5°	1613.4
20°	1616.1
22.5°	1597.1
25°	1545.2
27.5°	1468.8
30°	1373.2
32.5°	1253.0
35°	1111.2
37.5°	955.5
40°	791.7
42.5°	617.0
45°	428.6
47.5°	275.7
50°	166.6
52.5°	90.1
55°	43.7
57.5°	19.1
60°	10.9
62.5°	8.2
65°	5.5
67.5°	5.5
70°	2.8
72.5°	2.8
75°	2.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)