

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: P210873

Luminaire Tested: **LE_4B10D010 EC4B10209730 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210873
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 EC4B10209730 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE 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: 663.1 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

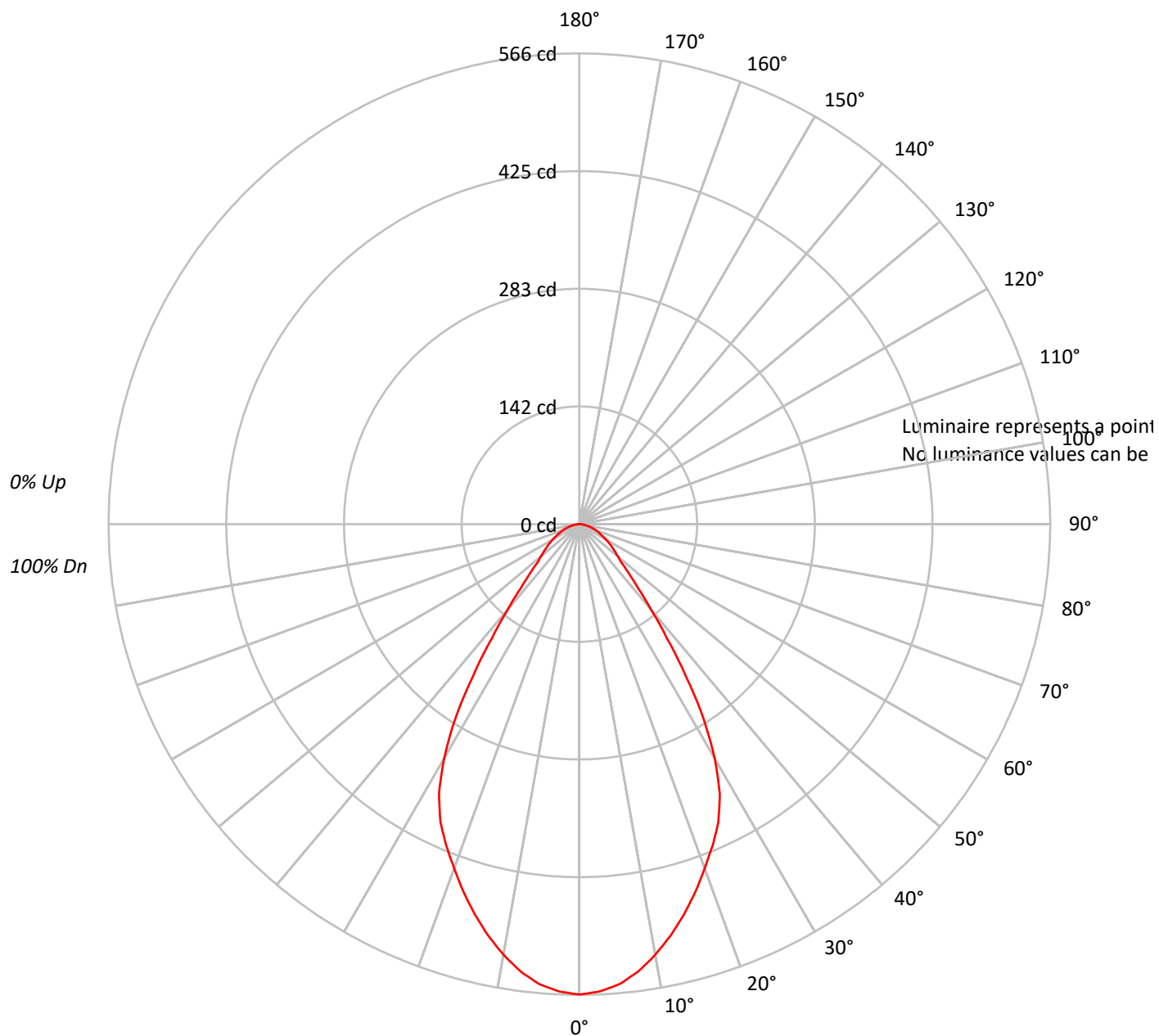
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	112	109	105	103	109	106	104	101		102	100	98			98	97	95			95
2	105	99	94	90	103	97	93	89		94	90	87			91	88	85			88
3	98	90	84	80	96	89	83	79		86	82	78			84	80	76			81
4	92	83	76	71	90	82	76	71		80	74	70			78	73	69			76
5	87	77	70	65	85	76	69	64		74	68	64			72	67	63			70
6	82	71	64	59	80	70	64	59		69	63	58			67	62	58			66
7	77	66	59	54	75	65	59	54		64	58	54			63	57	53			62
8	73	62	55	50	71	61	55	50		60	54	50			59	53	49			58
9	69	58	51	46	68	57	51	46		56	50	46			55	50	46			54
10	65	54	48	43	64	54	47	43		53	47	43			52	47	43			51

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	7.8
10°-20°	136.2	20.5
20°-30°	179.2	27.0
30°-40°	139.5	21.0
40°-50°	67.7	10.2
50°-60°	42.8	6.5
60°-70°	27.6	4.2
70°-80°	14.5	2.2
80°-90°	3.5	0.5
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°	367.4	55.4
0°-40°	506.9	76.4
0°-60°	617.5	93.1
0°-90°	663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	566	
5°	555	52
15°	486	136
25°	395	179
35°	223	139
45°	84	68
55°	47	43
65°	27	28
75°	14	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	565.7
2.5°	562.5
5°	555.2
7.5°	542.5
10°	525.7
12.5°	506.7
15°	485.7
17.5°	463.5
20°	440.3
22.5°	418.2
25°	395.1
27.5°	365.5
30°	325.5
32.5°	278.2
35°	223.3
37.5°	172.7
40°	133.7
42.5°	104.3
45°	84.3
47.5°	68.4
50°	60.1
52.5°	53.7
55°	47.4
57.5°	42.1
60°	36.9
62.5°	31.6
65°	27.4
67.5°	24.2
70°	20.1
72.5°	16.8
75°	13.7
77.5°	10.6
80°	7.4
82.5°	5.2
85°	3.1
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)