

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: P210974

Luminaire Tested: **LE_4B10D010 EC4B10208040 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210974
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 EC4B10208040 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 1126.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

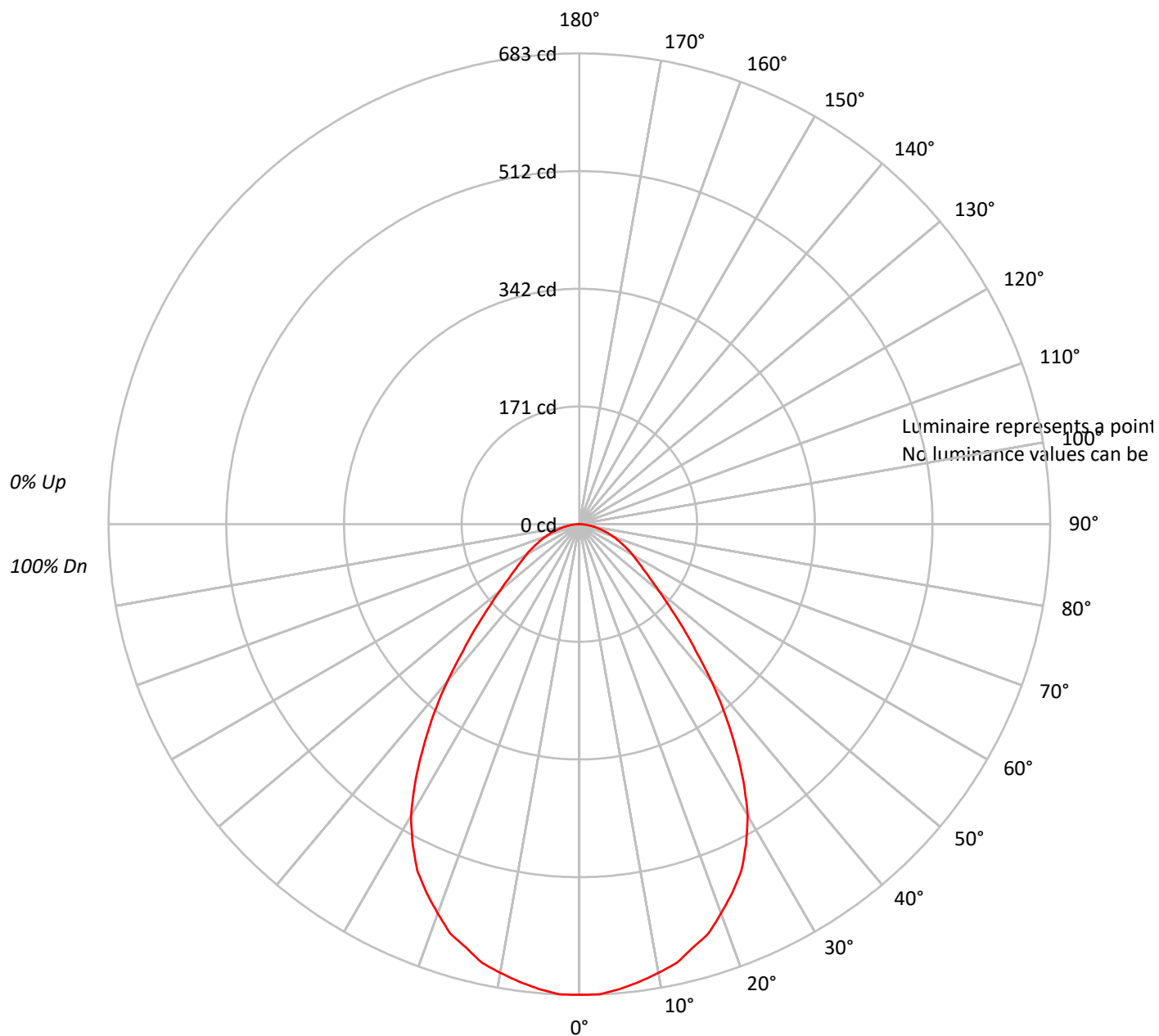
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			88
2	103	96	91	86	101	94	89	85		91	87	83			88	84	81			78
3	96	87	80	75	93	85	79	74		83	77	73			80	76	72			69
4	89	79	72	66	87	78	71	66		75	69	65			73	68	64			61
5	83	72	64	59	81	71	64	58		69	63	58			67	62	57			55
6	78	66	58	53	76	65	58	53		64	57	52			62	56	52			50
7	73	61	53	48	71	60	53	48		59	52	47			57	51	47			45
8	68	56	49	44	67	56	49	44		54	48	43			53	47	43			41
9	64	52	45	40	63	52	45	40		51	44	40			50	44	40			38
10	61	49	42	37	59	48	41	37		47	41	37			46	41	37			35

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	5.7
10°-20°	179.3	15.9
20°-30°	253.4	22.5
30°-40°	245.4	21.8
40°-50°	165.6	14.7
50°-60°	102.8	9.1
60°-70°	68.7	6.1
70°-80°	37.6	3.3
80°-90°	9.9	0.9
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°	496.8	44.1
0°-40°	742.2	65.9
0°-60°	1010.6	89.7
0°-90°	1126.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	683	
5°	677	64
15°	636	179
25°	556	253
35°	395	245
45°	212	166
55°	113	103
65°	69	69
75°	35	38
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	682.9
2.5°	682.9
5°	677.0
7.5°	669.7
10°	661.0
12.5°	652.2
15°	636.0
17.5°	622.9
20°	601.0
22.5°	579.1
25°	555.6
27.5°	523.5
30°	488.4
32.5°	443.0
35°	394.7
37.5°	346.5
40°	298.4
42.5°	250.1
45°	212.0
47.5°	176.9
50°	150.6
52.5°	128.6
55°	112.6
57.5°	99.4
60°	89.2
62.5°	79.0
65°	68.7
67.5°	60.0
70°	51.2
72.5°	43.8
75°	35.1
77.5°	27.8
80°	20.4
82.5°	14.6
85°	8.8
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)