

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: P210959

Luminaire Tested: **LSR4B10D010BZ EC4B10208040 4LBNI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210959
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: LSR4B10D010BZ EC4B10208040 4LBNI1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SPECULAR CLEAR 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: 818.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

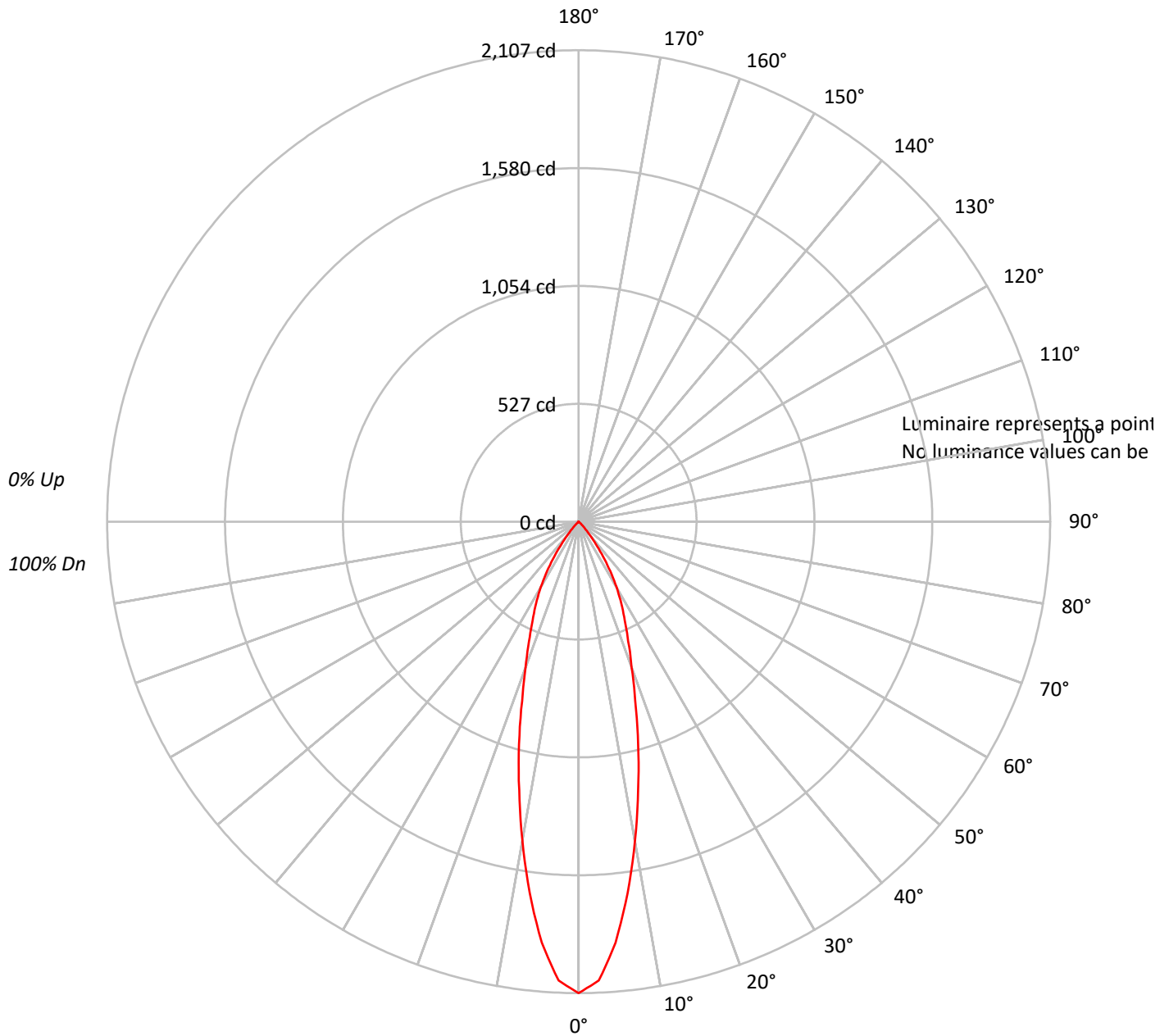
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106		106	104	103			102	101	100			95
2	109	105	102	99	107	103	100	98		100	98	95			97	95	93			90
3	105	99	95	92	103	98	94	91		95	92	89			93	90	88			85
4	101	94	89	86	99	93	88	85		91	87	84			89	86	83			81
5	96	89	84	80	95	88	84	80		87	82	79			85	81	79			77
6	92	85	80	76	91	84	79	76		83	78	75			81	78	75			73
7	89	81	76	72	88	80	75	72		79	75	71			78	74	71			69
8	85	77	72	68	84	77	72	68		76	71	68			75	71	68			66
9	82	74	69	65	81	73	68	65		72	68	65			72	68	65			63
10	79	71	66	62	78	70	65	62		69	65	62			69	65	62			61

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	20.3
10°-20°	284.3	34.7
20°-30°	225.9	27.6
30°-40°	119.6	14.6
40°-50°	20.6	2.5
50°-60°	1.6	0.2
60°-70°	0.8	0.1
70°-80°	0.0	0.0
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°	676.3	82.6
0°-40°	795.8	97.2
0°-60°	818.0	99.9
0°-90°	818.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2107	
5°	1889	166
15°	1028	284
25°	487	226
35°	189	120
45°	21	21
55°	1	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2107.1
2.5°	2052.9
5°	1889.0
7.5°	1674.6
10°	1447.6
12.5°	1228.2
15°	1027.7
17.5°	841.1
20°	692.3
22.5°	578.8
25°	486.7
27.5°	412.3
30°	337.9
32.5°	262.3
35°	189.1
37.5°	124.8
40°	74.4
42.5°	42.9
45°	21.4
47.5°	7.6
50°	2.5
52.5°	2.5
55°	1.3
57.5°	1.3
60°	1.3
62.5°	1.3
65°	1.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)