

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: P210813

Luminaire Tested: **LSR4B10D010BZ EC4B10208030 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210813
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 EC4B10208030 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-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: 671.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

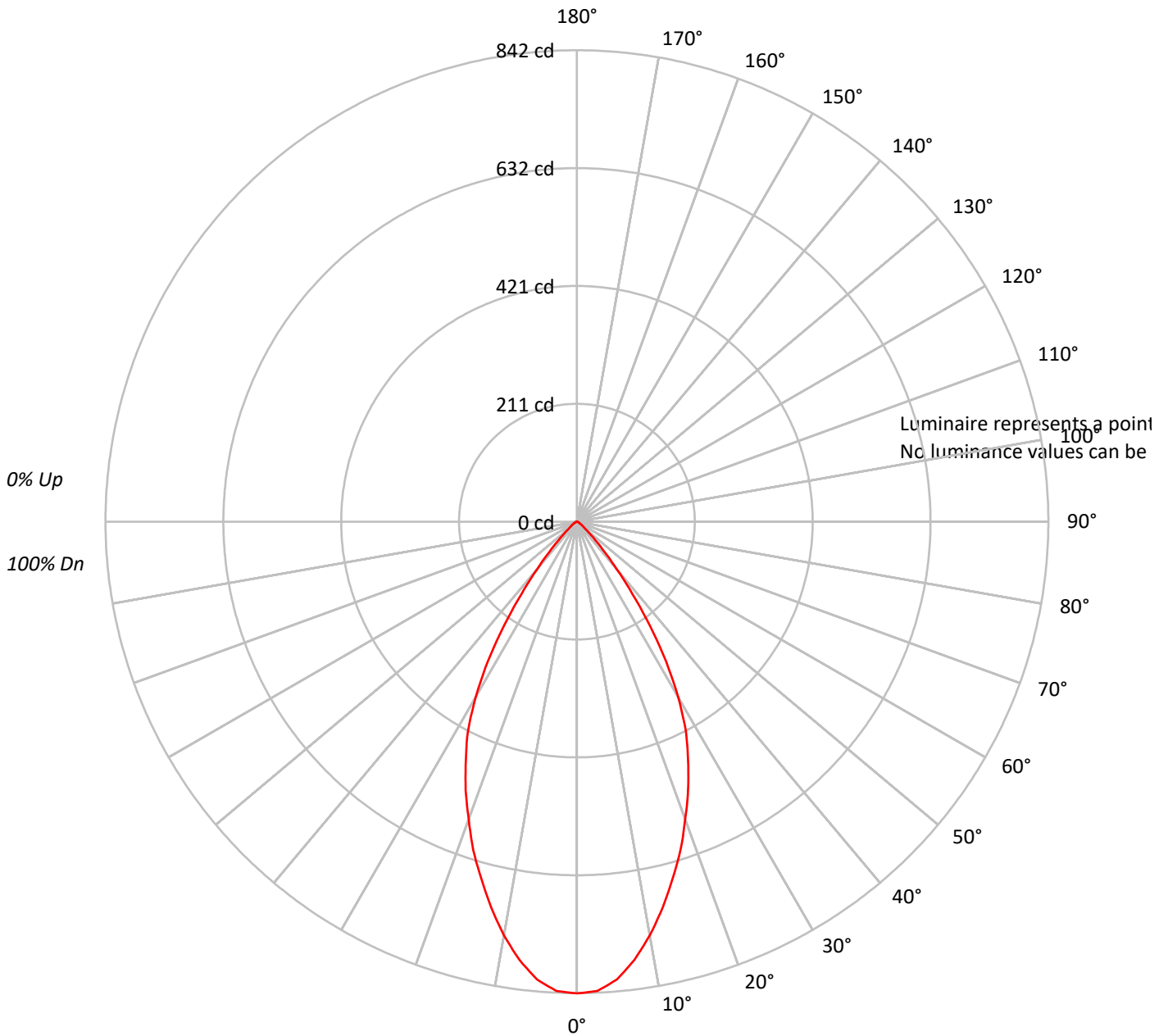
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									0								
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	102	102	102	100																																			
	1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																																			
	2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																																			
	3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																																			
	4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75																																			
	5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																																			
	6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																																			
	7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																																			
	8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																																			
	9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																																			
	10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																																			

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	11.3
10°-20°	184.4	27.5
20°-30°	214.1	31.9
30°-40°	141.8	21.1
40°-50°	39.8	5.9
50°-60°	10.0	1.5
60°-70°	3.7	0.6
70°-80°	1.3	0.2
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°	474.5	70.7
0°-40°	616.2	91.8
0°-60°	666.0	99.3
0°-90°	671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	842	
5°	821	76
15°	660	184
25°	469	214
35°	227	142
45°	46	40
55°	11	10
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	842.5
2.5°	838.9
5°	820.6
7.5°	789.0
10°	750.1
12.5°	706.4
15°	660.2
17.5°	615.2
20°	565.3
22.5°	519.1
25°	469.3
27.5°	421.9
30°	361.1
32.5°	296.6
35°	227.3
37.5°	162.9
40°	110.6
42.5°	71.7
45°	46.2
47.5°	28.0
50°	18.2
52.5°	13.4
55°	10.9
57.5°	8.5
60°	6.1
62.5°	4.9
65°	3.6
67.5°	2.4
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
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)