

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: P210755

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B10D010BZ EC4B10209027 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: 552.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

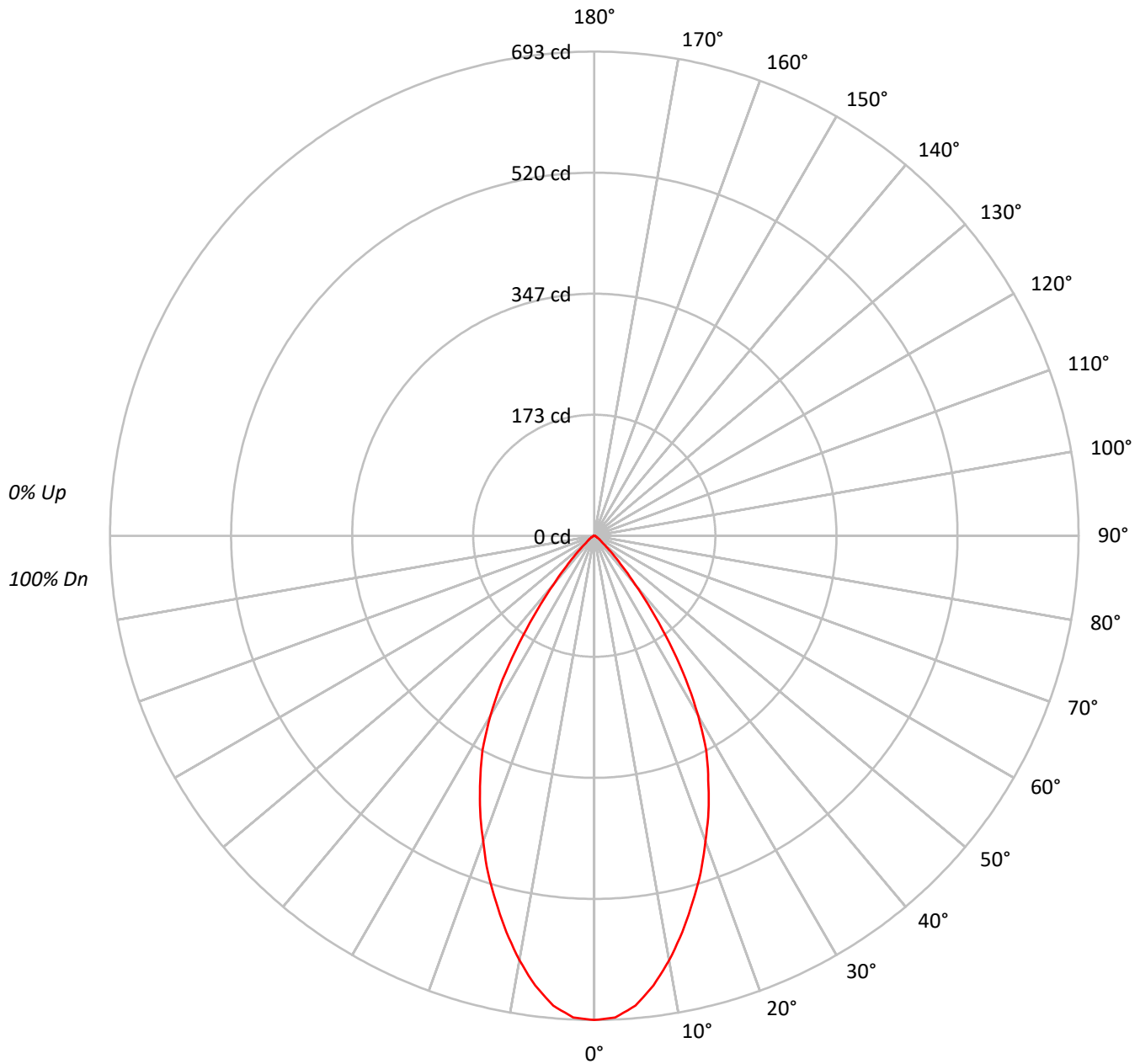
Input Watts (W): 9.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74		91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69		86	78	72	68		77	72	68		75	71	67		74	70	67
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56		74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53		71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75718
5°	74033
10°	68454
15°	61421
20°	54067
25°	46535
30°	37471
35°	24943
40°	12979
45°	5872
50°	2550
55°	1714
60°	1093
65°	776
70°	639
75°	422
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	11.3
10°-20°	151.7	27.5
20°-30°	176.1	31.9
30°-40°	116.6	21.1
40°-50°	32.7	5.9
50°-60°	8.2	1.5
60°-70°	3.1	0.6
70°-80°	1.1	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°	390.3	70.7
0°-40°	506.9	91.8
0°-60°	547.8	99.3
0°-90°	552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	693	
5°	675	63
15°	543	152
25°	386	176
35°	187	117
45°	38	33
55°	9	8
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	693
2.5°	690
5°	675
7.5°	649
10°	617
12.5°	581
15°	543
17.5°	506
20°	465
22.5°	427
25°	386
27.5°	347
30°	297
32.5°	244
35°	187
37.5°	134
40°	91
42.5°	59
45°	38
47.5°	23
50°	15
52.5°	11
55°	9
57.5°	7
60°	5
62.5°	4
65°	3
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)