

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: P210729

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210729
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 EC4B10208027 4LBNWH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH WHEAT 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: 674.6 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

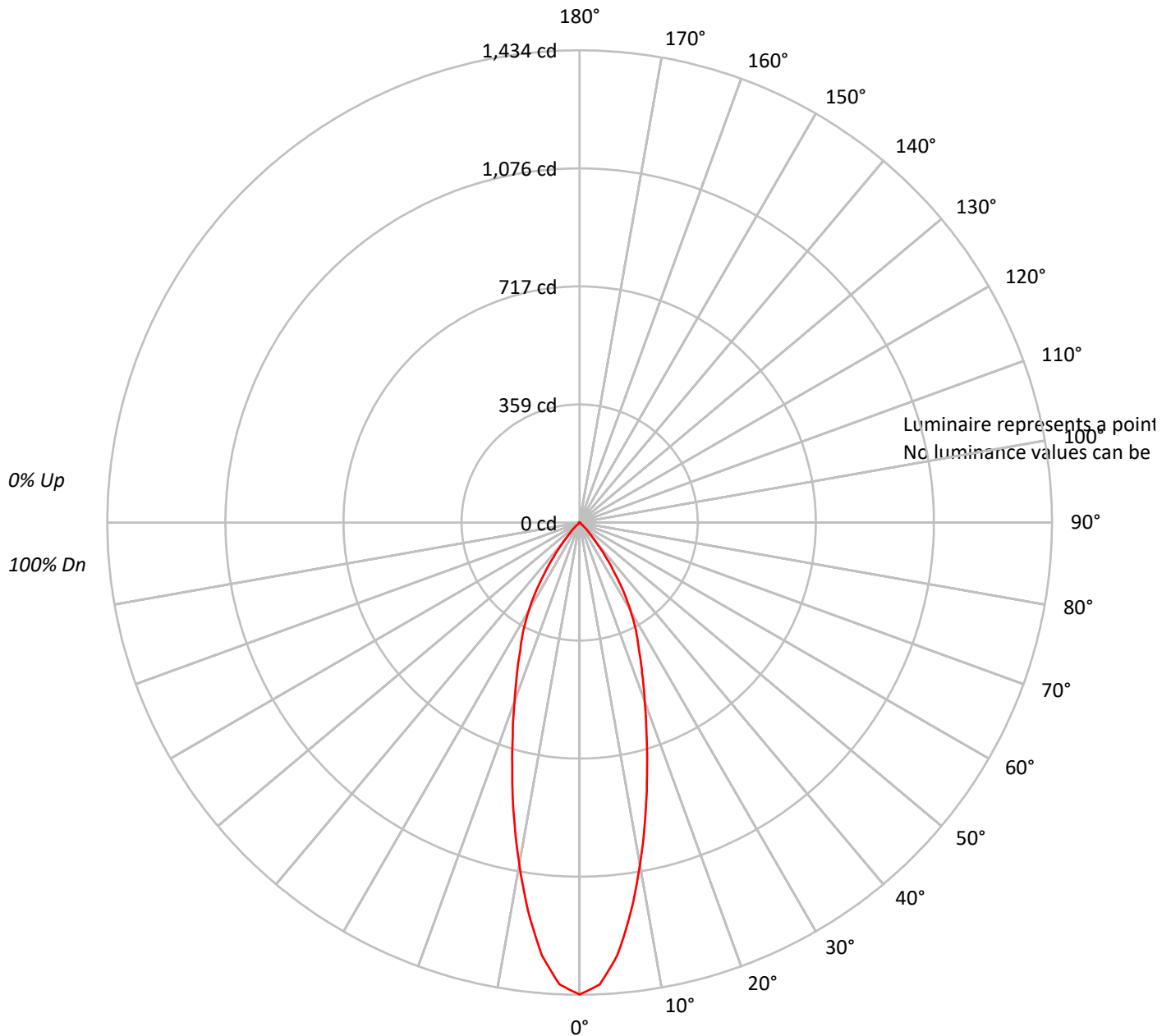
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	114	111	109	107		112	109	107	105		105	104	102			102	100	99			98
2	109	105	101	98		107	103	100	97		100	97	95			97	95	93			94
3	104	98	94	90		102	97	93	90		94	91	88			92	89	87			90
4	100	93	88	84		98	92	87	83		90	86	82			88	84	82			86
5	95	88	82	78		94	87	82	78		85	81	77			83	80	77			82
6	91	83	78	74		90	82	77	74		81	76	73			79	76	73			78
7	87	79	73	70		86	78	73	69		77	72	69			76	72	69			75
8	84	75	70	66		82	74	69	66		73	69	65			72	68	65			71
9	80	71	66	62		79	71	66	62		70	65	62			69	65	62			68
10	77	68	63	59		76	68	63	59		67	62	59			66	62	59			66

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	17.4
10°-20°	219.9	32.6
20°-30°	197.3	29.2
30°-40°	113.2	16.8
40°-50°	22.6	3.4
50°-60°	2.9	0.4
60°-70°	1.3	0.2
70°-80°	0.2	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°	534.4	79.2
0°-40°	647.6	96.0
0°-60°	673.1	99.8
0°-90°	674.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1434	
5°	1318	117
15°	790	220
25°	426	197
35°	179	113
45°	24	23
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1433.5
2.5°	1404.4
5°	1318.3
7.5°	1192.5
10°	1055.1
12.5°	920.0
15°	789.6
17.5°	675.4
20°	577.6
22.5°	496.1
25°	426.2
27.5°	370.3
30°	308.6
32.5°	245.7
35°	179.3
37.5°	122.3
40°	75.7
42.5°	45.4
45°	24.5
47.5°	10.5
50°	4.7
52.5°	3.5
55°	3.5
57.5°	2.3
60°	2.3
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
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)