

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: P211182

Luminaire Tested: **LSR4B15D010BZ EC4B10208030 4LBMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211182
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: LSR4B15D010BZ EC4B10208030 4LBMB1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SPECULAR BLACK TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 615.6 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

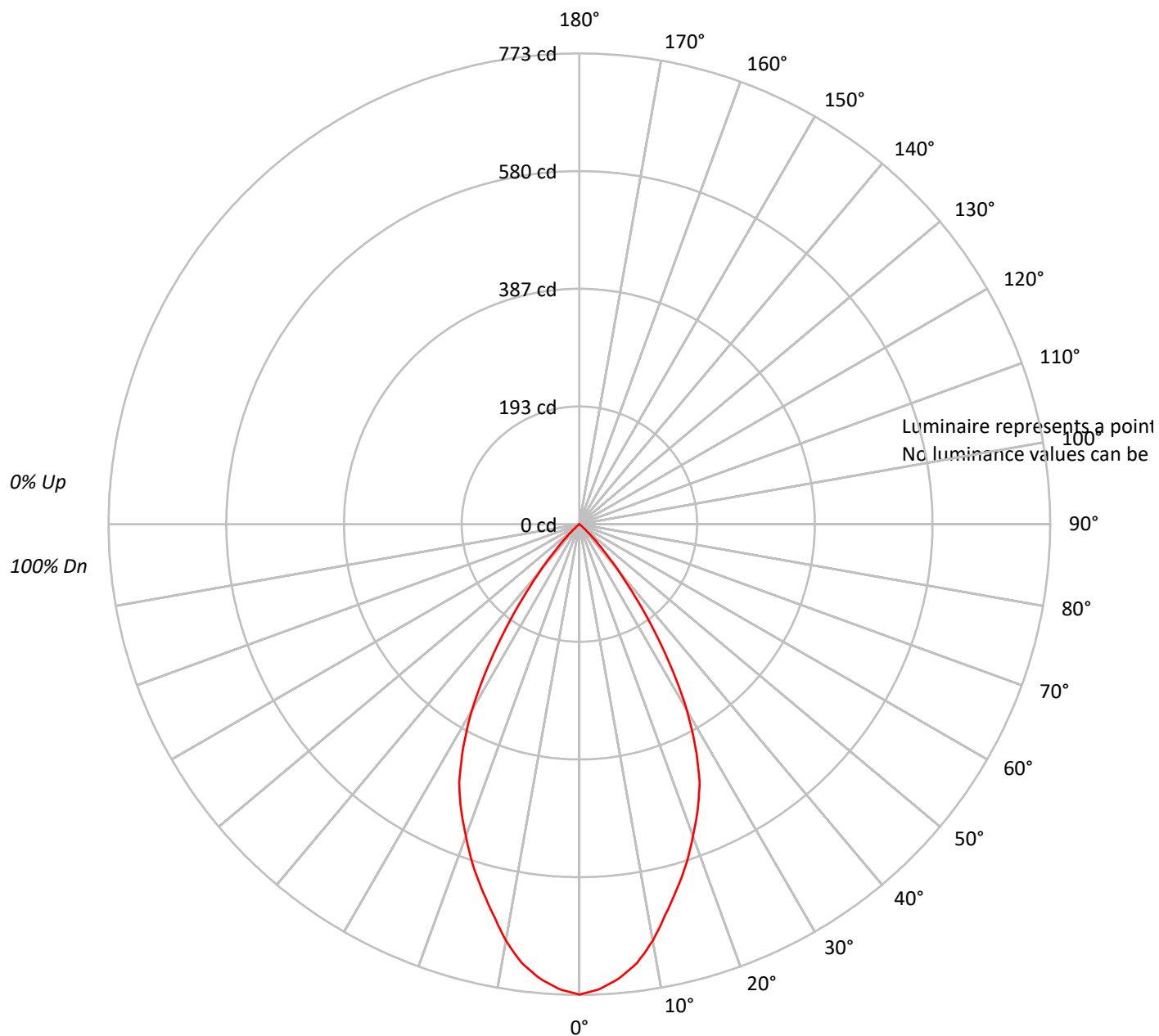
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





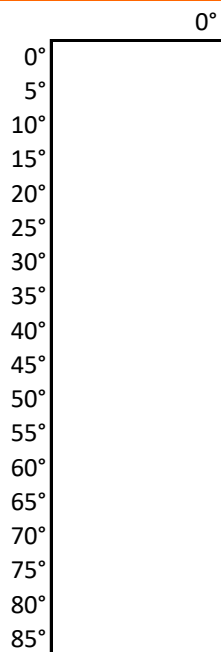
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	111	109	106		111	109	107	105		105	103	102			101	100	99			98
2	108	104	100	96		106	102	98	95		99	96	93			96	93	91			93
3	103	97	92	88		101	95	91	87		93	89	86			90	87	85			88
4	98	91	85	81		96	90	85	81		87	83	80			85	82	79			84
5	93	85	79	75		92	84	79	75		82	78	74			81	77	74			79
6	89	80	74	70		87	79	74	70		78	73	69			76	72	69			75
7	84	75	70	65		83	75	69	65		73	68	65			72	68	65			71
8	80	71	65	61		79	71	65	61		69	64	61			68	64	61			67
9	77	67	61	58		76	67	61	57		66	61	57			65	60	57			64
10	73	64	58	54		72	63	58	54		62	57	54			62	57	54			61

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	11.3
10°-20°	173.6	28.2
20°-30°	209.9	34.1
30°-40°	133.9	21.8
40°-50°	27.9	4.5
50°-60°	0.4	0.1
60°-70°	0.0	0.0
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°	453.4	73.6
0°-40°	587.2	95.4
0°-60°	615.6	100.0
0°-90°	615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	615.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	749	70
15°	620	174
25°	467	210
35°	214	134
45°	29	28
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	772.7
2.5°	764.2
5°	748.9
7.5°	726.8
10°	694.6
12.5°	655.5
15°	619.9
17.5°	584.2
20°	545.1
22.5°	507.8
25°	467.0
27.5°	412.7
30°	353.2
32.5°	283.6
35°	214.0
37.5°	149.4
40°	98.5
42.5°	57.7
45°	28.9
47.5°	11.9
50°	3.4
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
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)