

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: P211274

Luminaire Tested: **LSR4B15D010BZ EC4B10208035 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211274
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 EC4B10208035 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH WHEAT 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: 1176.8 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

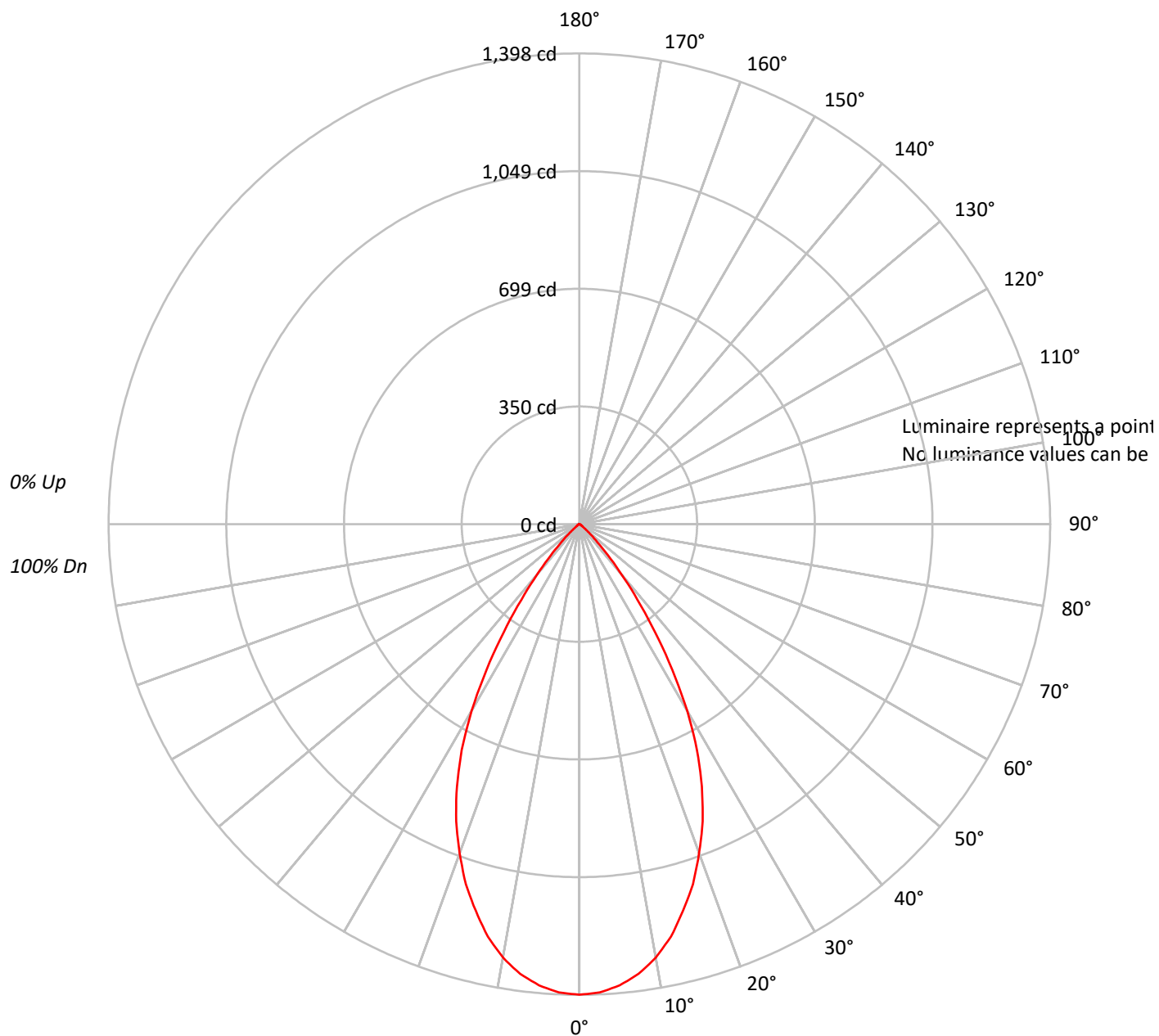
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	111	108	106		111	109	106	105		105	103	101			101	100	98			94
2	108	103	99	96		106	102	98	95		98	95	93			95	93	91			87
3	103	96	91	88		101	95	90	87		92	89	85			90	87	84			81
4	98	90	85	81		96	89	84	80		87	83	79			85	81	78			76
5	93	84	79	74		91	84	78	74		82	77	73			80	76	73			71
6	88	79	73	69		87	79	73	69		77	72	68			76	71	68			66
7	84	75	69	65		82	74	68	64		73	68	64			72	67	64			62
8	80	70	64	60		79	70	64	60		69	64	60			68	63	60			58
9	76	66	61	57		75	66	60	57		65	60	56			64	60	56			55
10	73	63	57	53		72	62	57	53		62	57	53			61	56	53			52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	11.0
10°-20°	332.0	28.2
20°-30°	389.5	33.1
30°-40°	246.5	20.9
40°-50°	66.0	5.6
50°-60°	9.2	0.8
60°-70°	3.4	0.3
70°-80°	1.1	0.1
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°	850.5	72.3
0°-40°	1097.0	93.2
0°-60°	1172.3	99.6
0°-90°	1176.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1398	
5°	1375	129
15°	1189	332
25°	860	389
35°	391	246
45°	75	66
55°	9	9
65°	4	3
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1397.7
2.5°	1392.4
5°	1375.1
7.5°	1347.2
10°	1307.3
12.5°	1255.1
15°	1189.1
17.5°	1121.3
20°	1039.5
22.5°	956.1
25°	860.5
27.5°	756.2
30°	639.7
32.5°	512.8
35°	391.1
37.5°	283.4
40°	194.7
42.5°	125.2
45°	74.8
47.5°	41.7
50°	22.6
52.5°	12.2
55°	8.7
57.5°	7.0
60°	5.2
62.5°	5.2
65°	3.5
67.5°	1.7
70°	1.7
72.5°	1.7
75°	1.7
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)