

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: P210721

Luminaire Tested: **LSR4B10D010BZ EC4B10208027 4LBMLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210721
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 4LBMLI1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH 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: 963.4 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

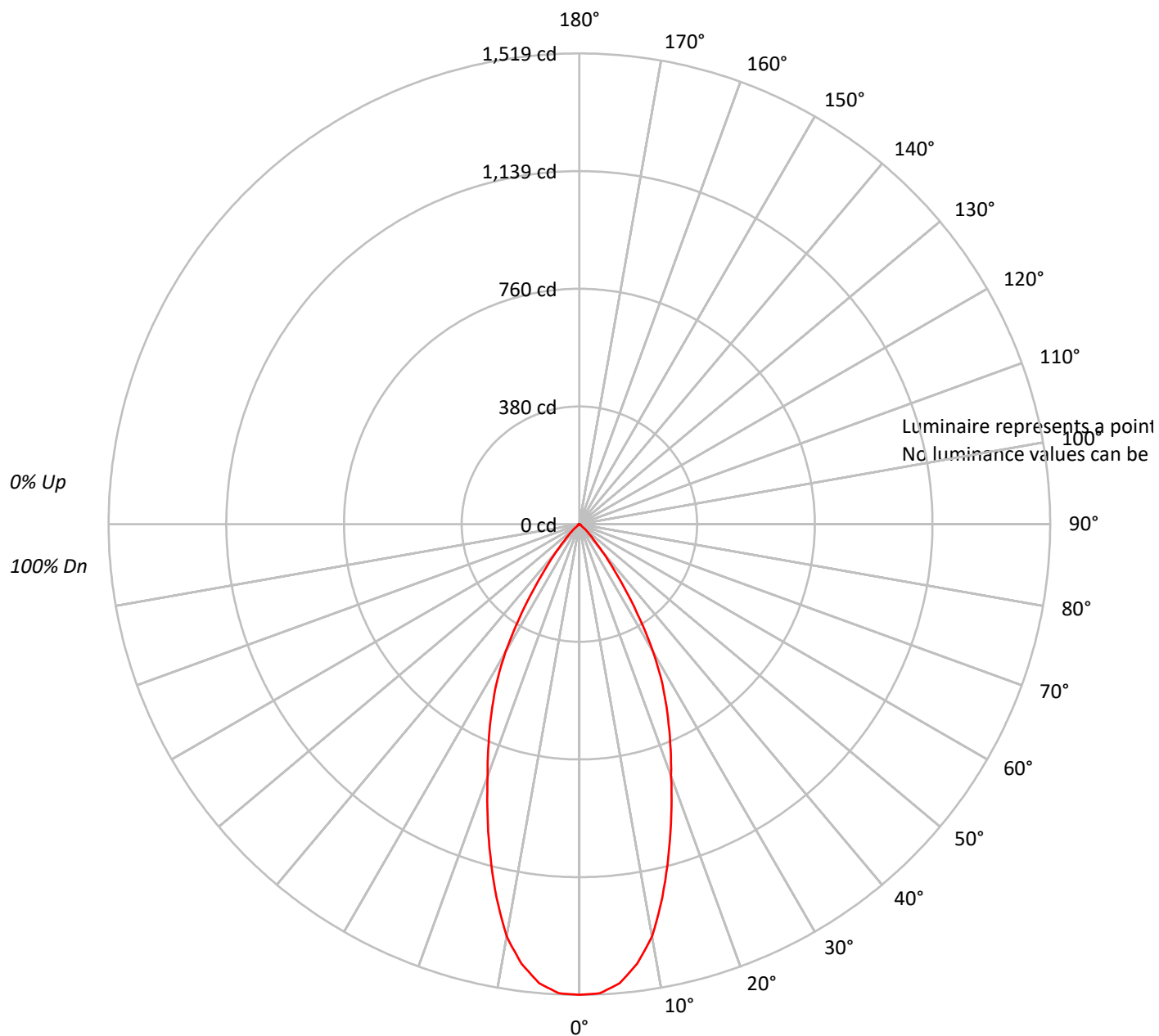
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107		111	109	107	105		105	103	102			101	100	99			98
2	109	104	100	97		107	102	99	96		99	96	94			96	94	92			94
3	104	98	93	89		102	96	92	89		94	90	87			91	88	86			89
4	99	92	87	83		97	91	86	82		89	85	81			87	83	80			85
5	94	87	81	77		93	86	81	77		84	79	76			82	78	75			81
6	90	82	76	72		89	81	76	72		80	75	71			78	74	71			77
7	86	77	72	68		85	77	71	68		75	71	67			74	70	67			73
8	82	73	68	64		81	73	67	64		72	67	64			71	66	63			70
9	79	70	64	60		78	69	64	60		68	63	60			67	63	60			67
10	75	66	61	57		74	66	61	57		65	60	57			64	60	57			64

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	14.3
10°-20°	307.4	31.9
20°-30°	305.7	31.7
30°-40°	166.5	17.3
40°-50°	38.5	4.0
50°-60°	5.4	0.6
60°-70°	2.0	0.2
70°-80°	0.5	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°	750.6	77.9
0°-40°	917.1	95.2
0°-60°	961.0	99.7
0°-90°	963.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1519	
5°	1487	138
15°	1110	307
25°	670	306
35°	258	166
45°	44	38
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1518.9
2.5°	1515.4
5°	1487.4
7.5°	1430.3
10°	1351.0
12.5°	1234.4
15°	1109.7
17.5°	986.1
20°	864.9
22.5°	765.8
25°	670.3
27.5°	579.3
30°	476.8
32.5°	362.5
35°	257.6
37.5°	173.7
40°	113.1
42.5°	71.1
45°	44.3
47.5°	25.6
50°	12.8
52.5°	7.0
55°	5.8
57.5°	3.5
60°	3.5
62.5°	2.3
65°	2.3
67.5°	1.2
70°	1.2
72.5°	1.2
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)