

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: P210778

Luminaire Tested: **LSR4B10D010BZ EC4B10209727 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210778
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 EC4B10209727 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 576.6 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

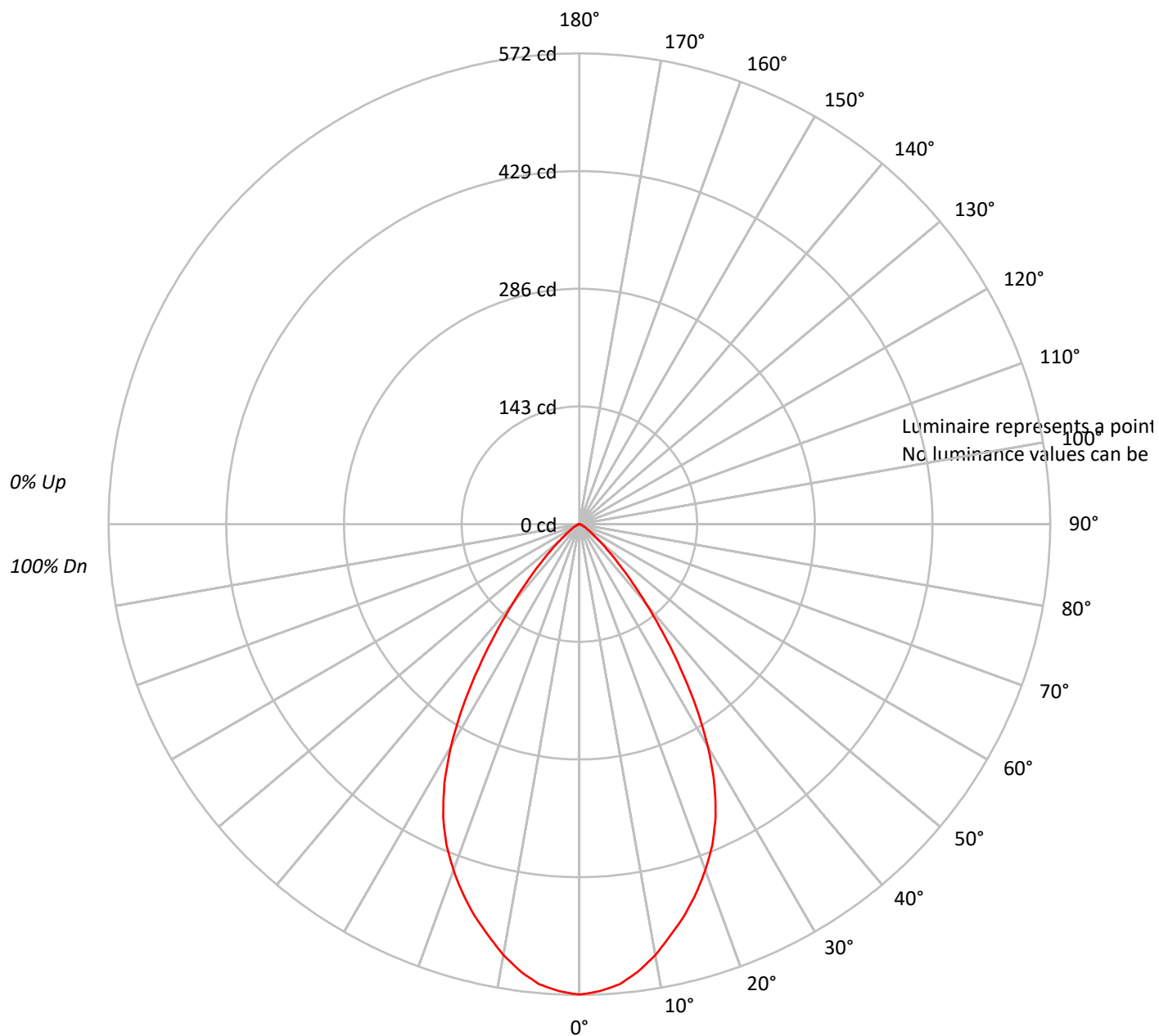
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





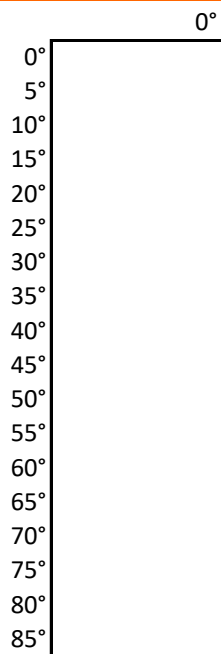
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	69
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	52
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48		56	52	48

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	9.1
10°-20°	138.0	23.9
20°-30°	177.4	30.8
30°-40°	133.4	23.1
40°-50°	53.6	9.3
50°-60°	15.2	2.6
60°-70°	4.8	0.8
70°-80°	1.4	0.2
80°-90°	0.1	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°	368.0	63.8
0°-40°	501.4	87.0
0°-60°	570.3	98.9
0°-90°	576.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	572	
5°	561	53
15°	492	138
25°	392	177
35°	214	133
45°	66	54
55°	16	15
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	571.7
2.5°	568.2
5°	561.3
7.5°	548.2
10°	531.7
12.5°	511.7
15°	492.5
17.5°	470.8
20°	447.3
22.5°	422.0
25°	391.6
27.5°	355.0
30°	312.4
32.5°	264.5
35°	214.1
37.5°	167.1
40°	125.3
42.5°	92.2
45°	66.1
47.5°	45.3
50°	31.3
52.5°	21.8
55°	15.7
57.5°	11.3
60°	8.7
62.5°	6.1
65°	4.4
67.5°	3.5
70°	2.6
72.5°	1.7
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)