

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: P210801

Luminaire Tested: **LSR4B10D010BZ EC4B10209727 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210801
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 4LBWWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 665.3 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

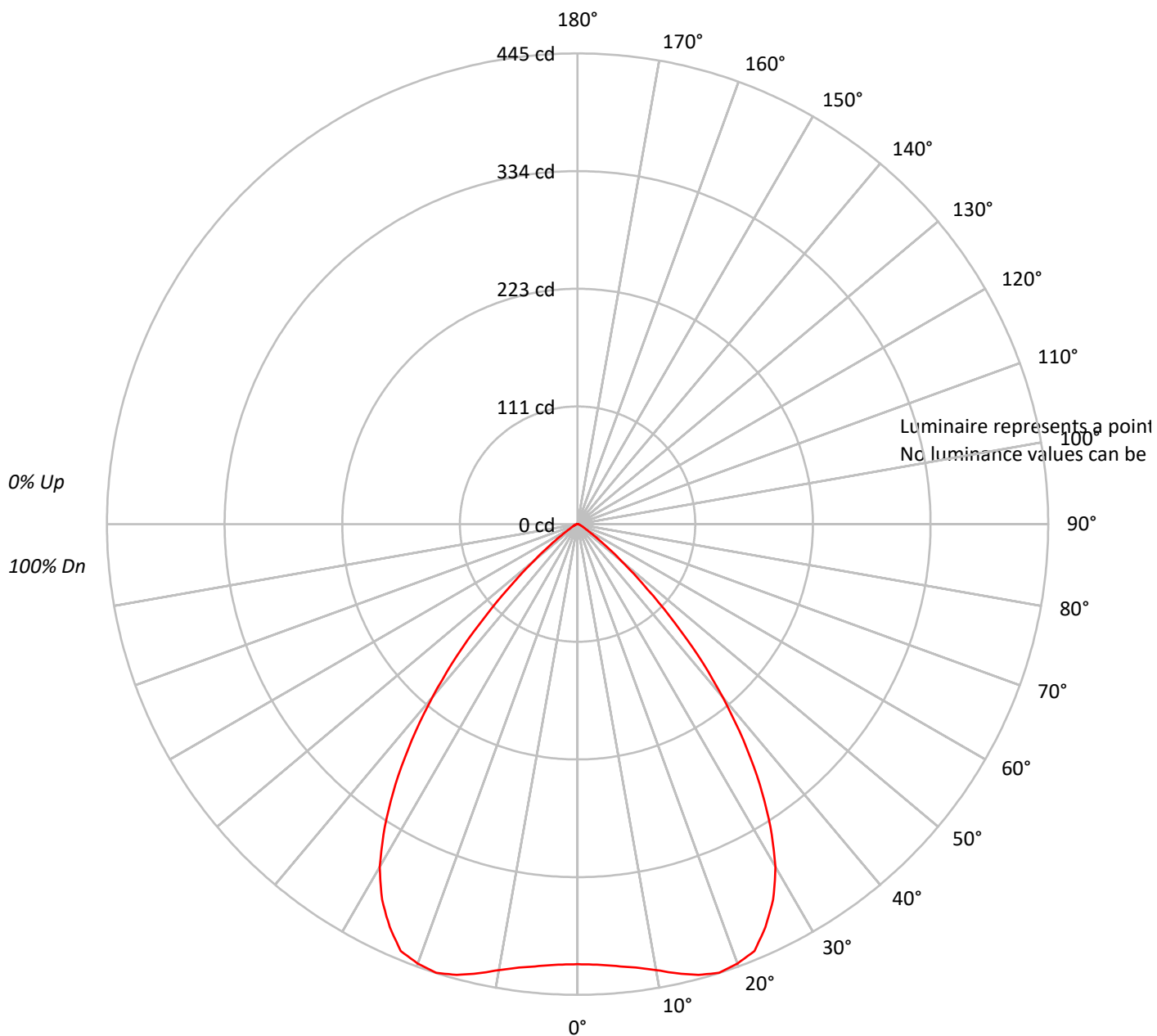
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





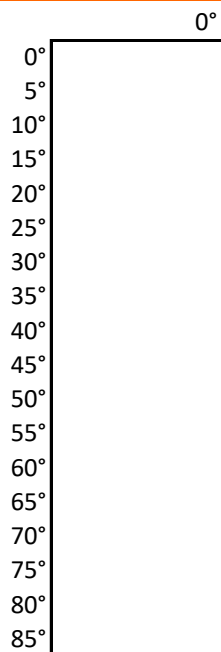
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	104		110	107	105	103		103	101	100		100	98	97		96	95	94
2	106	101	96	92		104	99	95	91		96	92	89		93	90	87		90	87	85
3	100	93	87	82		98	91	86	82		88	84	80		86	82	79		84	80	78
4	94	85	79	74		92	84	78	74		82	77	73		80	75	72		78	74	71
5	88	79	72	67		86	78	71	67		76	70	66		74	69	65		72	68	65
6	83	73	66	61		81	72	65	61		70	64	60		69	64	60		67	63	59
7	78	67	60	56		76	67	60	55		65	59	55		64	59	55		63	58	54
8	73	62	56	51		72	62	55	51		61	55	51		60	54	50		59	54	50
9	69	58	51	47		68	58	51	47		57	51	47		56	50	47		55	50	46
10	65	54	48	43		64	54	48	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	6.1
10°-20°	124.7	18.7
20°-30°	191.8	28.8
30°-40°	185.0	27.8
40°-50°	96.5	14.5
50°-60°	20.3	3.1
60°-70°	4.7	0.7
70°-80°	1.8	0.3
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°	356.8	53.6
0°-40°	541.8	81.4
0°-60°	658.6	99.0
0°-90°	665.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	416	
5°	419	40
15°	441	125
25°	420	192
35°	300	185
45°	123	96
55°	18	20
65°	4	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	416.0
2.5°	416.8
5°	419.4
7.5°	422.9
10°	428.1
12.5°	435.1
15°	441.2
17.5°	444.7
20°	442.1
22.5°	436.8
25°	420.3
27.5°	400.3
30°	374.2
32.5°	339.4
35°	300.2
37.5°	257.6
40°	213.2
42.5°	168.8
45°	122.7
47.5°	82.7
50°	53.1
52.5°	32.2
55°	18.3
57.5°	11.3
60°	7.8
62.5°	6.1
65°	4.4
67.5°	3.5
70°	2.6
72.5°	2.6
75°	1.7
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)