

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: P210770

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35289)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B10D010BZ EC4B10209027 4LBWLI1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 873.2 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

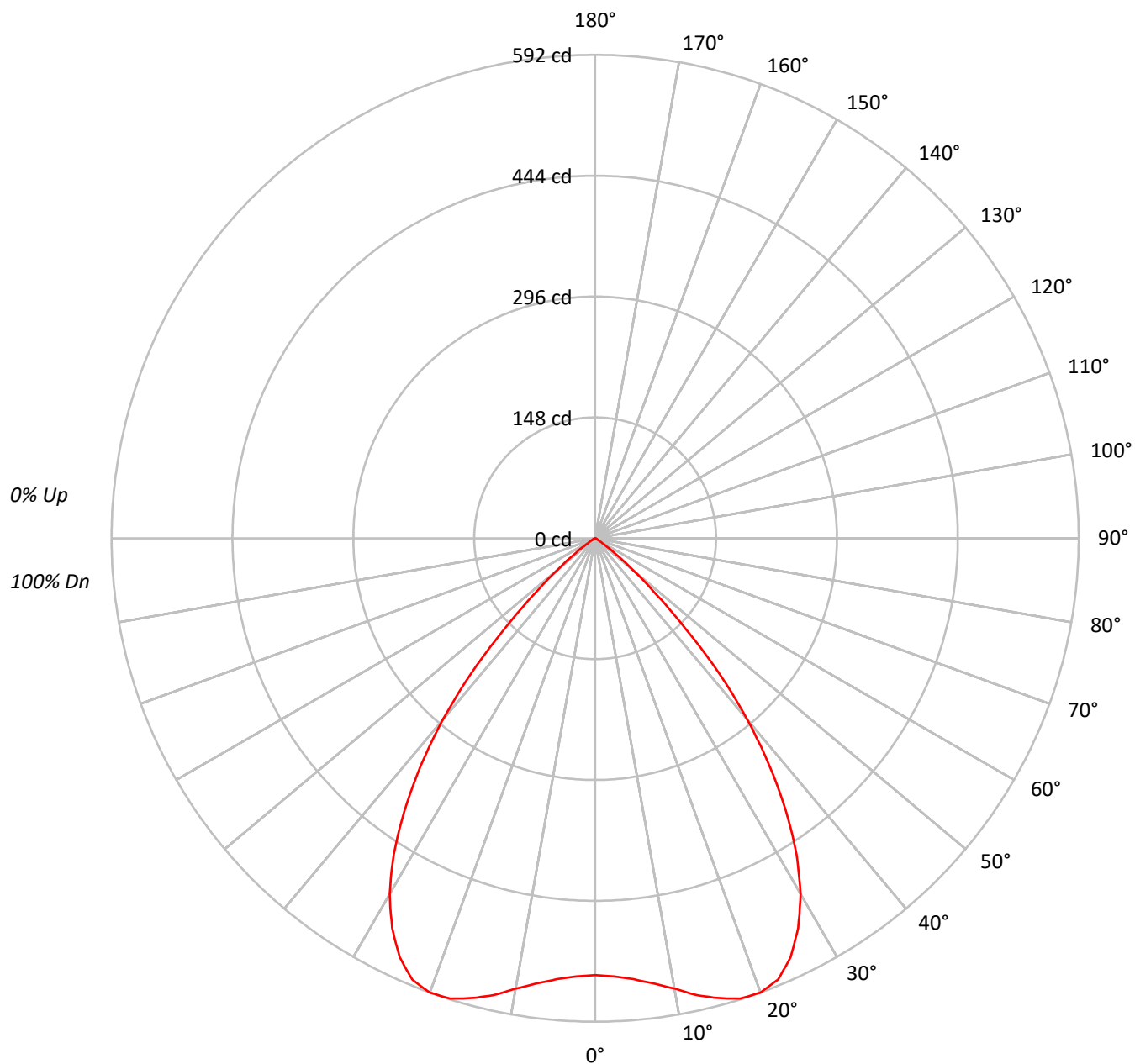
Input Watts (W): 9.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	105		110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93		104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83		98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75		92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68		87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62		82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52		72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48		68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44		65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58455
5°	59446
10°	62130
15°	65946
20°	68834
25°	68235
30°	63460
35°	54287
40°	41363
45°	24259
50°	10369
55°	3048
60°	874
65°	517
70°	319
75°	422
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	6.0
10°-20°	165.1	18.9
20°-30°	257.6	29.5
30°-40°	250.6	28.7
40°-50°	125.2	14.3
50°-60°	19.4	2.2
60°-70°	2.3	0.3
70°-80°	0.7	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°	475.0	54.4
0°-40°	725.6	83.1
0°-60°	870.2	99.7
0°-90°	873.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	535	
5°	542	52
15°	583	165
25°	566	258
35°	407	251
45°	157	125
55°	16	19
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535
2.5°	537
5°	542
7.5°	550
10°	560
12.5°	573
15°	583
17.5°	591
20°	592
22.5°	585
25°	566
27.5°	538
30°	503
32.5°	459
35°	407
37.5°	350
40°	290
42.5°	226
45°	157
47.5°	101
50°	61
52.5°	33
55°	16
57.5°	7
60°	4
62.5°	3
65°	2
67.5°	2
70°	1
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)