

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: P210859

Luminaire Tested: **LSR4B10D010BZ EC4B10209030 4LBWWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210859
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 EC4B10209030 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: 795.7 lumens
Efficiency: N/A
Efficacy: 80.4 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

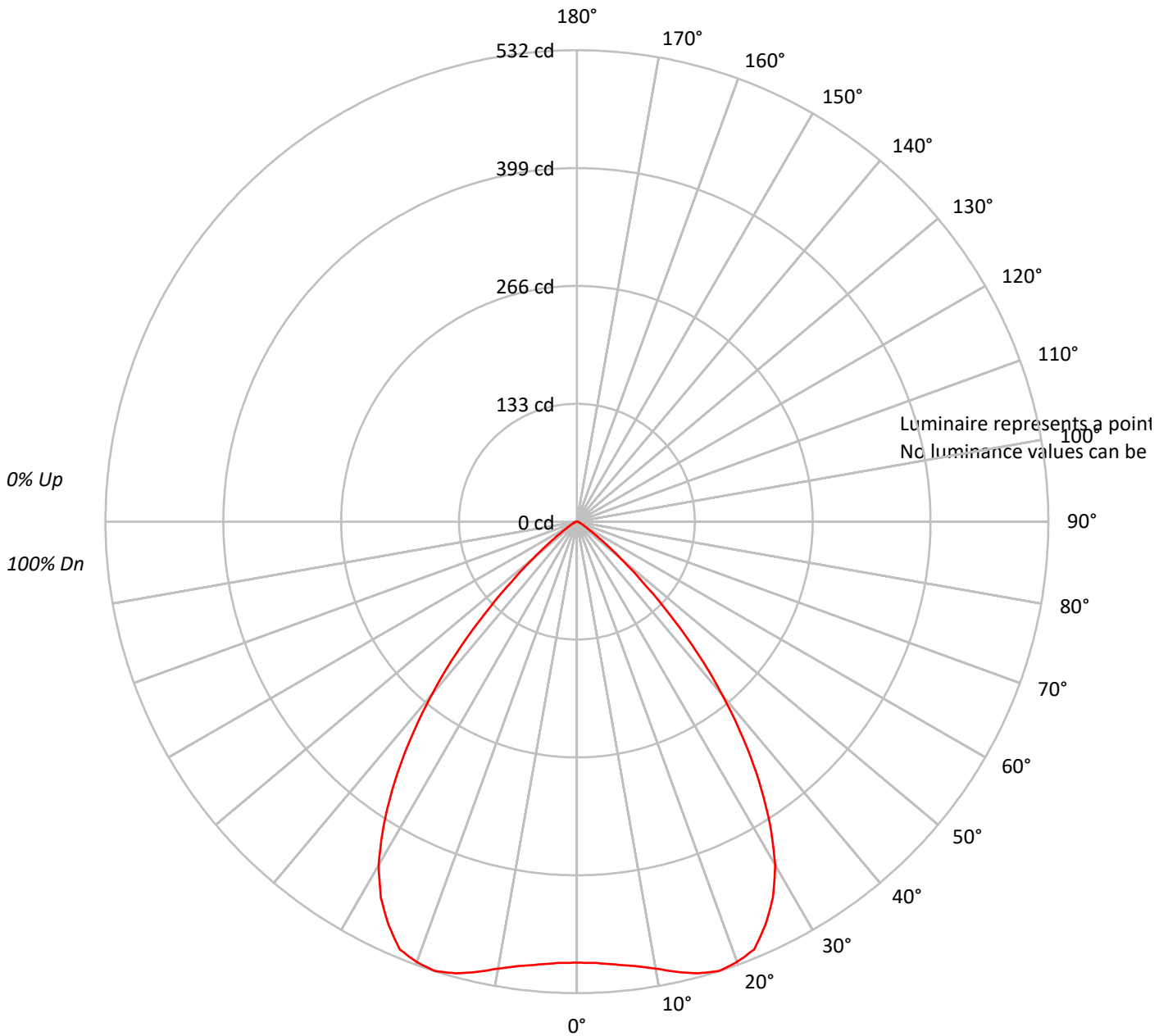
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				100															
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84				84															
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76															
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69															
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58				58															
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53				53															
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49				49															
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				45															
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41															

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	6.1
10°-20°	149.1	18.7
20°-30°	229.4	28.8
30°-40°	221.3	27.8
40°-50°	115.4	14.5
50°-60°	24.3	3.1
60°-70°	5.7	0.7
70°-80°	2.2	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°	426.7	53.6
0°-40°	648.0	81.4
0°-60°	787.7	99.0
0°-90°	795.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	795.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	498	
5°	502	48
15°	528	149
25°	503	229
35°	359	221
45°	147	115
55°	22	24
65°	5	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	497.5
2.5°	498.5
5°	501.7
7.5°	505.8
10°	512.1
12.5°	520.4
15°	527.7
17.5°	531.8
20°	528.7
22.5°	522.5
25°	502.7
27.5°	478.8
30°	447.5
32.5°	405.9
35°	359.1
37.5°	308.1
40°	255.0
42.5°	201.9
45°	146.8
47.5°	98.9
50°	63.5
52.5°	38.5
55°	21.9
57.5°	13.5
60°	9.4
62.5°	7.3
65°	5.2
67.5°	4.2
70°	3.1
72.5°	3.1
75°	2.1
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)