

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: P210855

Luminaire Tested: **LSR4B10D010BZ EC4B10209030 4LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210855
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 4LBWGPH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 600.1 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

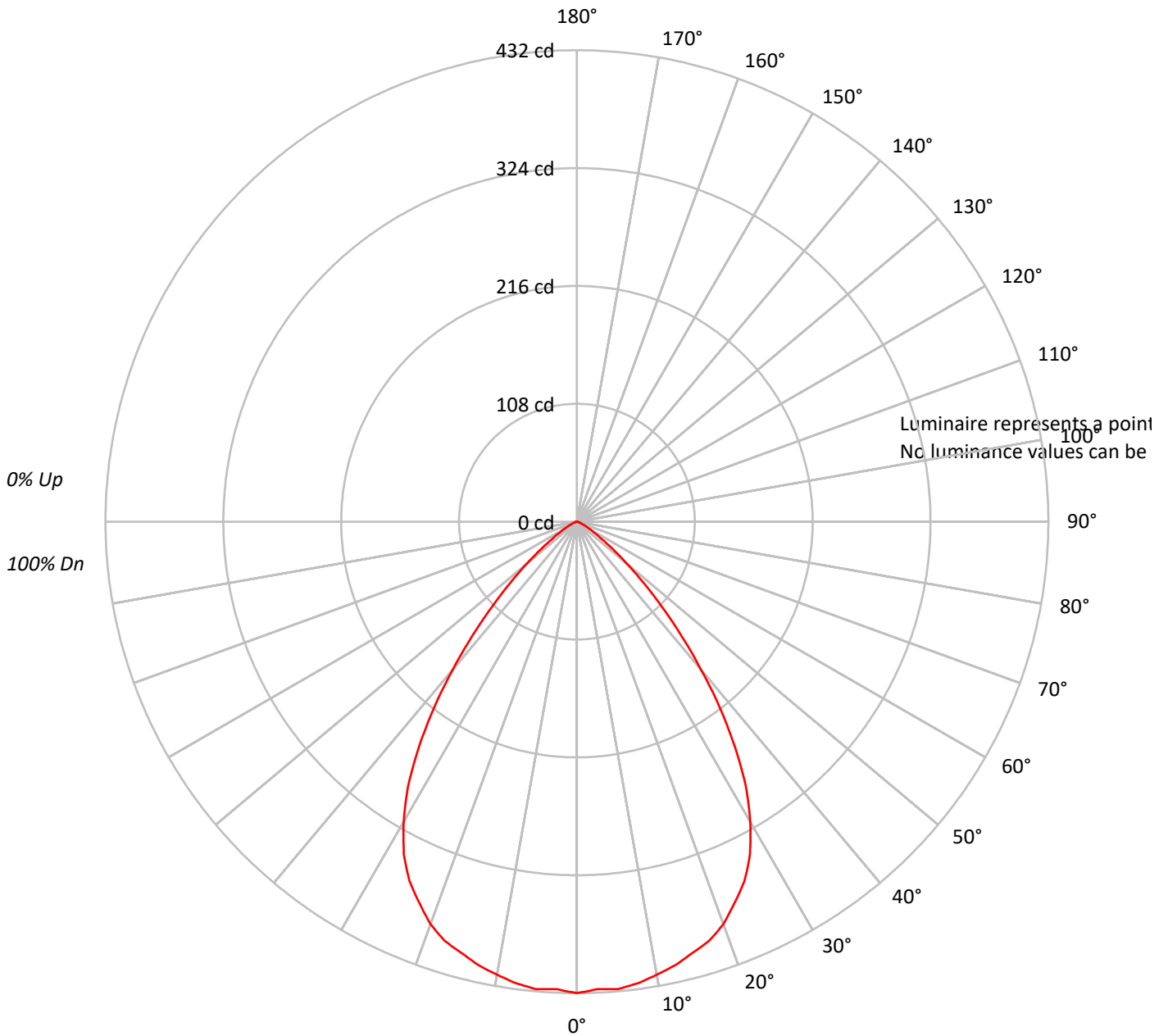
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	100	100	100	100	100	100	100	100	100																	
	1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92	92	92	92	92	92	92	92																	
	2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83	83	83	83	83	83	83	83	83	83	83																	
	3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76	76	76	76	76	76	76	76	76	76	76																	
	4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69	69	69	69	69	69	69	69	69	69	69																	
	5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63	63	63	63	63	63	63	63	63	63	63																	
	6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57	57	57	57	57	57	57	57	57	57	57																	
	7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53	53	53	53	53	53	53	53	53	53	53																	
	8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48	48	48	48	48	48	48	48	48	48	48																	
	9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45	45	45	45	45	45	45	45																	
	10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	42	42	42	42	42	42	42	42	42	42	42																	

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	6.8
10°-20°	115.5	19.2
20°-30°	165.6	27.6
30°-40°	155.9	26.0
40°-50°	86.1	14.3
50°-60°	27.6	4.6
60°-70°	6.9	1.2
70°-80°	1.6	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°	321.8	53.6
0°-40°	477.7	79.6
0°-60°	591.4	98.6
0°-90°	600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	432	
5°	430	41
15°	409	115
25°	363	166
35°	253	156
45°	109	86
55°	28	28
65°	6	7
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	432.0
2.5°	428.8
5°	429.9
7.5°	426.7
10°	421.5
12.5°	416.3
15°	409.1
17.5°	402.8
20°	392.4
22.5°	377.8
25°	363.3
27.5°	343.5
30°	317.5
32.5°	288.3
35°	252.9
37.5°	215.5
40°	176.9
42.5°	141.6
45°	109.3
47.5°	82.2
50°	59.3
52.5°	41.6
55°	28.1
57.5°	18.7
60°	13.5
62.5°	9.4
65°	6.2
67.5°	4.2
70°	3.1
72.5°	2.1
75°	1.0
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)