

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: P210694

Luminaire Tested: **LSR4B10D010BZ EC4B10209024 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210694
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 EC4B10209024 4LBMWH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 595.5 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

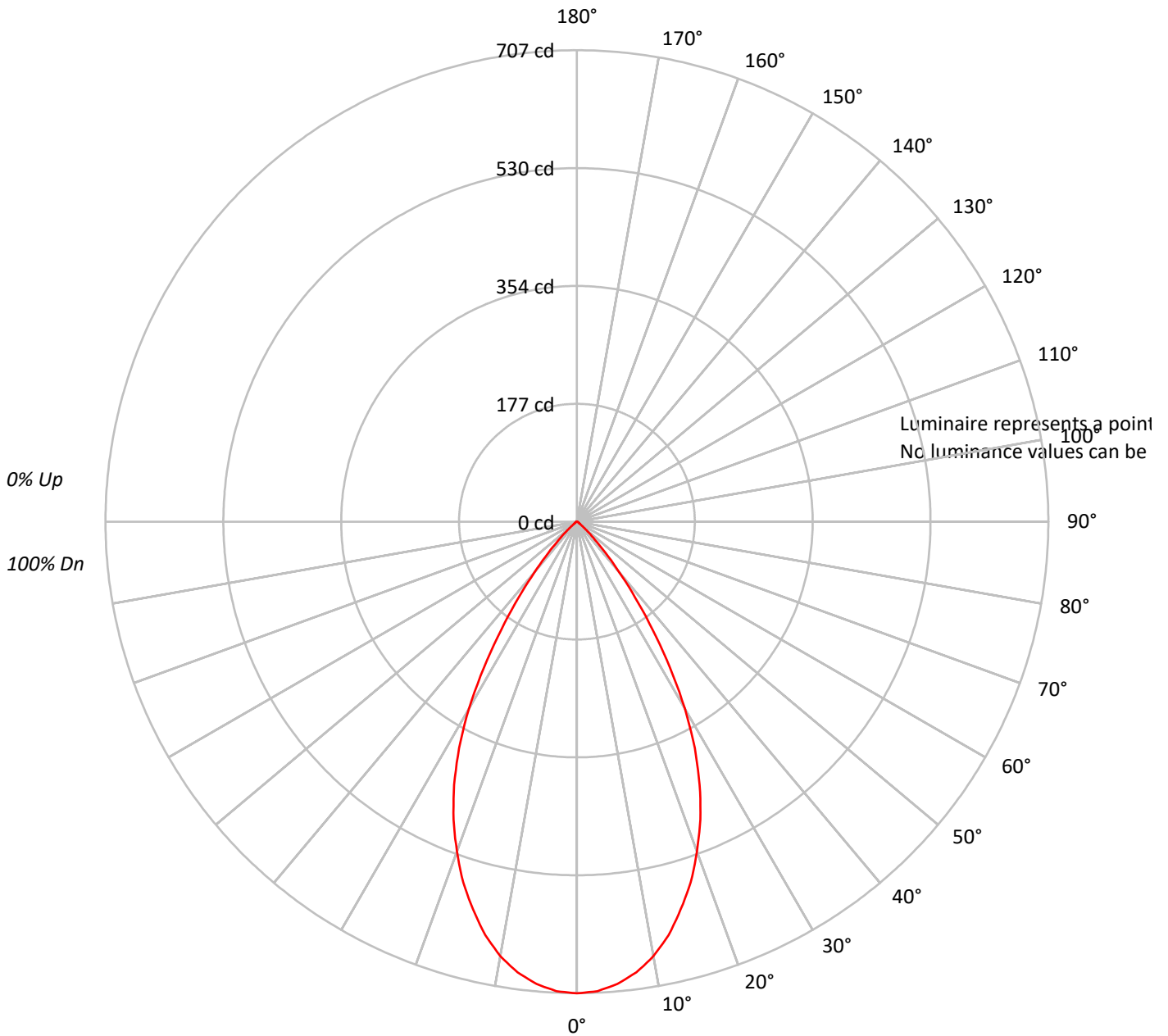
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																																				
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94																																				
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																																				
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																																				
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																																				
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																																				
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																																				
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62																																				
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																																				
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																																				
10	73	63	57	53	72	62	57	53	62	57	53	61	56	53	60	56	53	52																																				

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	11.0
10°-20°	168.0	28.2
20°-30°	197.1	33.1
30°-40°	124.7	20.9
40°-50°	33.4	5.6
50°-60°	4.7	0.8
60°-70°	1.7	0.3
70°-80°	0.6	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°	430.4	72.3
0°-40°	555.1	93.2
0°-60°	593.2	99.6
0°-90°	595.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	707	
5°	696	65
15°	602	168
25°	436	197
35°	198	125
45°	38	33
55°	4	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	707.3
2.5°	704.7
5°	695.9
7.5°	681.8
10°	661.5
12.5°	635.2
15°	601.7
17.5°	567.4
20°	526.1
22.5°	483.8
25°	435.5
27.5°	382.7
30°	323.7
32.5°	259.5
35°	197.9
37.5°	143.4
40°	98.5
42.5°	63.3
45°	37.8
47.5°	21.1
50°	11.4
52.5°	6.2
55°	4.4
57.5°	3.5
60°	2.6
62.5°	2.6
65°	1.8
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)