

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: P210702

Luminaire Tested: **LSR4B10D010BZ EC4B10209024 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210702
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 4LBSB1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH SPECULAR BLACK 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: 669.5 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

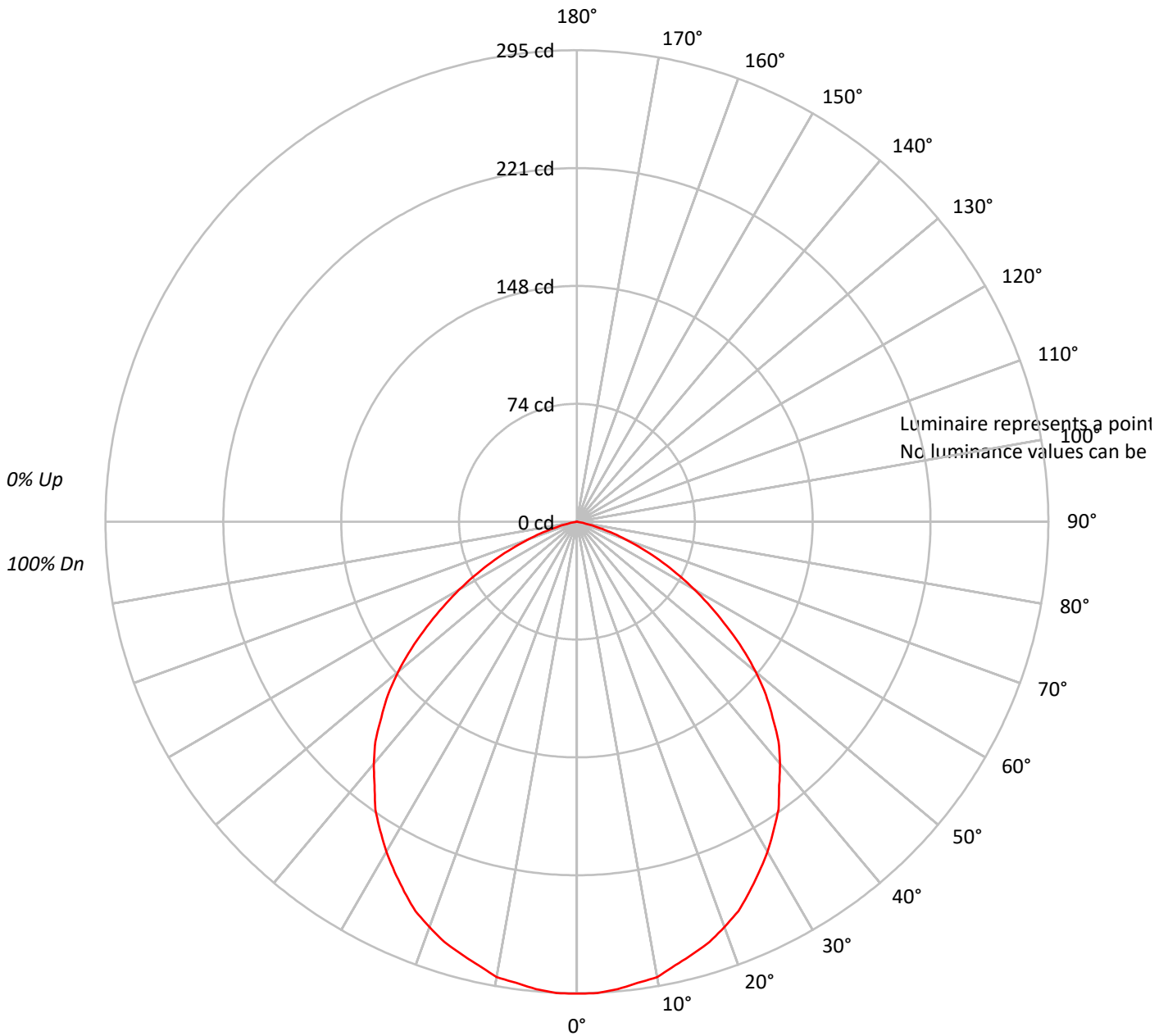
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			88																
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			76																
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65			65																
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			57																
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			50																
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			44																
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			39																
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35																
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32																
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29																

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	4.2
10°-20°	79.1	11.8
20°-30°	117.7	17.6
30°-40°	136.9	20.4
40°-50°	133.4	19.9
50°-60°	102.7	15.3
60°-70°	56.7	8.5
70°-80°	15.0	2.2
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°	224.6	33.6
0°-40°	361.5	54.0
0°-60°	597.6	89.3
0°-90°	669.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	295	
5°	294	28
15°	280	79
25°	256	118
35°	220	137
45°	173	133
55°	115	103
65°	57	57
75°	13	15
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	295.3
2.5°	295.3
5°	293.6
7.5°	291.1
10°	289.4
12.5°	284.3
15°	280.1
17.5°	275.8
20°	269.9
22.5°	263.9
25°	255.5
27.5°	247.0
30°	238.5
32.5°	229.1
35°	219.8
37.5°	207.9
40°	197.7
42.5°	186.7
45°	173.1
47.5°	160.4
50°	146.0
52.5°	130.7
55°	114.6
57.5°	99.3
60°	84.9
62.5°	70.4
65°	56.9
67.5°	44.1
70°	32.3
72.5°	22.1
75°	12.7
77.5°	5.9
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)