

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: P210752

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B10D010BZ EC4B10209027 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: 677.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

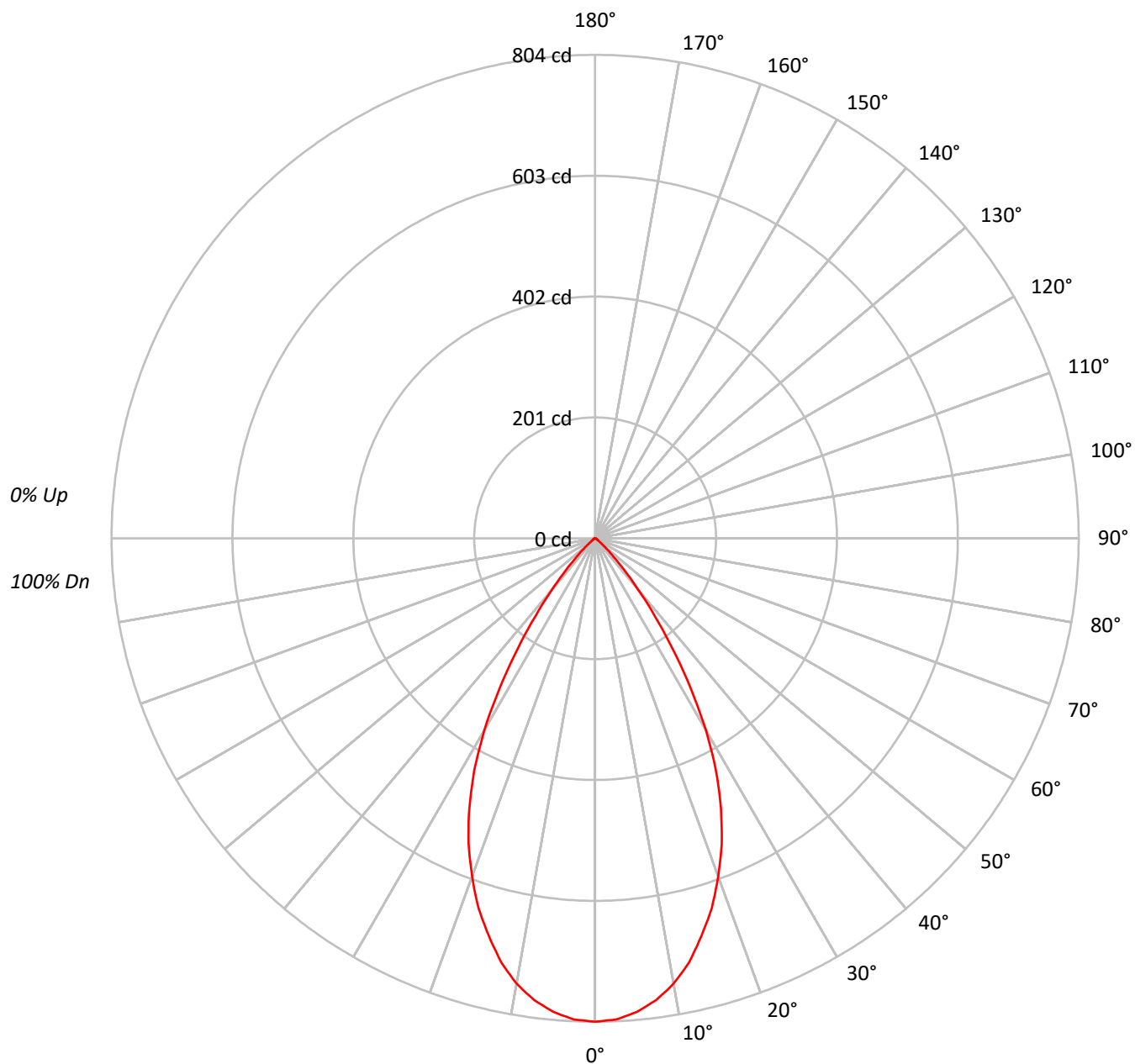
Input Watts (W): 9.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	114	111	108	106		111	109	106	105		105	103	101			101	100	98			98
2	108	103	99	96		106	102	98	95		98	95	93			95	93	91			93
3	103	96	91	88		101	95	90	87		92	89	85			90	87	84			88
4	98	90	85	81		96	89	84	80		87	83	79			85	81	78			83
5	93	84	79	74		91	84	78	74		82	77	73			80	76	73			79
6	88	79	73	69		87	79	73	69		77	72	68			76	71	68			74
7	84	75	69	65		82	74	68	64		73	68	64			72	67	64			70
8	80	70	64	60		79	70	64	60		69	64	60			68	63	60			67
9	76	66	61	57		75	66	60	57		65	60	56			64	60	56			63
10	73	63	57	53		72	62	57	53		62	57	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87846
5°	86755
10°	83432
15°	77371
20°	69531
25°	59675
30°	46428
35°	30011
40°	15975
45°	6644
50°	2210
55°	952
60°	656
65°	517
70°	319
75°	422
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	11.0
10°-20°	191.0	28.2
20°-30°	224.0	33.1
30°-40°	141.8	20.9
40°-50°	38.0	5.6
50°-60°	5.3	0.8
60°-70°	2.0	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°	489.3	72.3
0°-40°	631.1	93.2
0°-60°	674.3	99.6
0°-90°	677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	804	
5°	791	74
15°	684	191
25°	495	224
35°	225	142
45°	43	38
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	804
2.5°	801
5°	791
7.5°	775
10°	752
12.5°	722
15°	684
17.5°	645
20°	598
22.5°	550
25°	495
27.5°	435
30°	368
32.5°	295
35°	225
37.5°	163
40°	112
42.5°	72
45°	43
47.5°	24
50°	13
52.5°	7
55°	5
57.5°	4
60°	3
62.5°	3
65°	2
67.5°	1
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)