

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: P210769

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35167)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B10D010BZ EC4B10209027 4LBWH1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 736.9 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

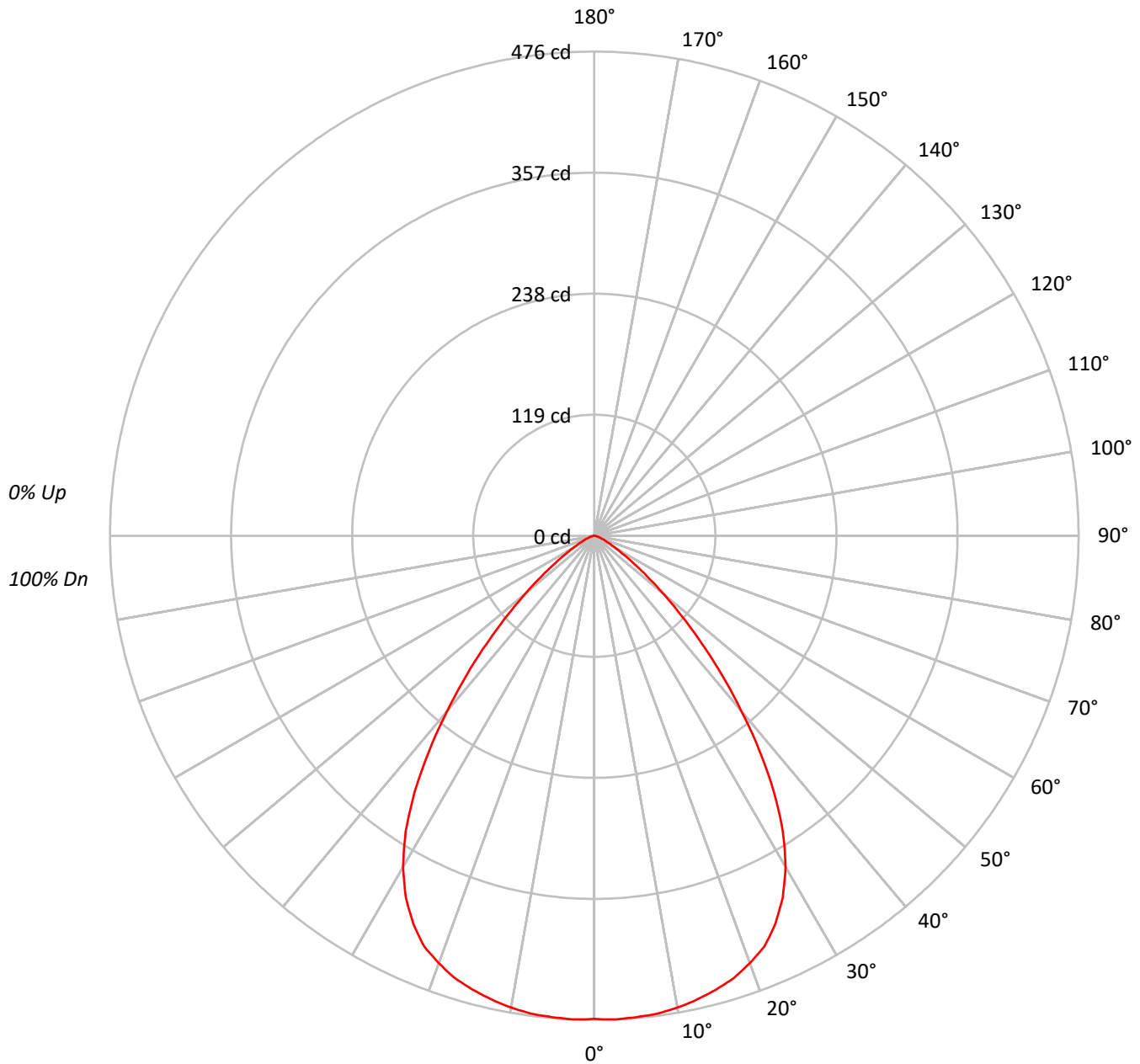
Input Watts (W): 9.74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104		110	107	104	102		103	101	99			99	97	96			96
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			89
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			82
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			76
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			70
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			65
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			61
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			57
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			53
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51899
5°	52097
10°	52256
15°	52259
20°	51974
25°	50754
30°	47437
35°	41082
40°	32092
45°	23023
50°	14958
55°	8953
60°	5245
65°	3361
70°	2236
75°	1689
80°	1258
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	6.1
10°-20°	130.3	17.7
20°-30°	192.3	26.1
30°-40°	189.8	25.8
40°-50°	116.2	15.8
50°-60°	44.5	6.0
60°-70°	13.9	1.9
70°-80°	4.1	0.6
80°-90°	0.5	0.1
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°	367.9	49.9
0°-40°	557.7	75.7
0°-60°	718.4	97.5
0°-90°	736.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	736.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	475	
5°	475	45
15°	462	130
25°	421	192
35°	308	190
45°	149	116
55°	47	45
65°	13	14
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	475
2.5°	476
5°	475
7.5°	474
10°	471
12.5°	467
15°	462
17.5°	456
20°	447
22.5°	437
25°	421
27.5°	401
30°	376
32.5°	345
35°	308
37.5°	267
40°	225
42.5°	186
45°	149
47.5°	116
50°	88
52.5°	65
55°	47
57.5°	33
60°	24
62.5°	18
65°	13
67.5°	10
70°	7
72.5°	5
75°	4
77.5°	2
80°	2
82.5°	1
85°	0
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)