

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: P210754

Luminaire Tested: **LSR4B10D010BZ EC4B10209027 4LBNGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35206)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR4B10D010BZ EC4B10209027 4LBNGPH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH 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: 412.8 lumens
Efficiency: N/A
Efficacy: 42.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

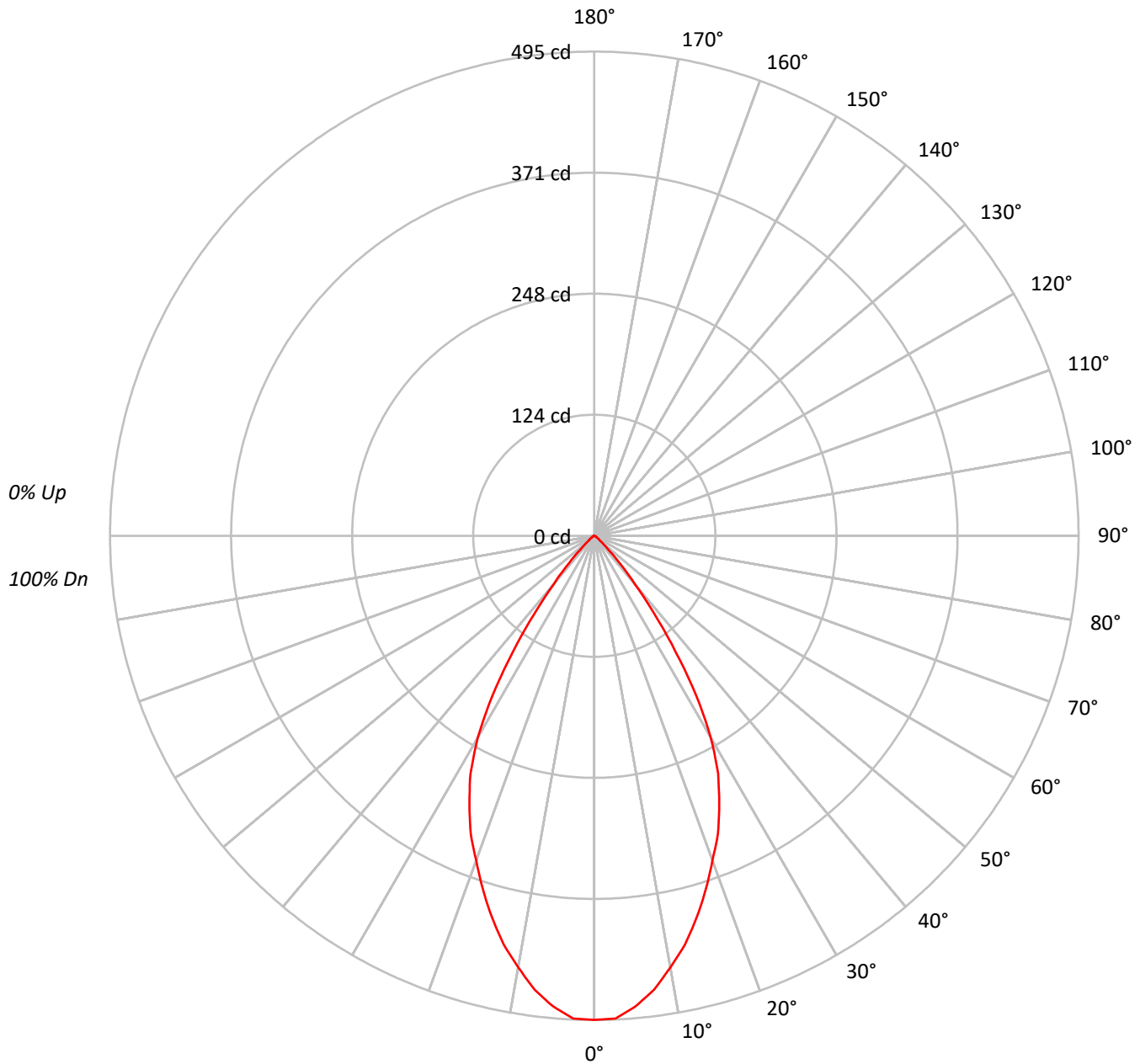
Input Watts (W): 9.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106		111	109	106	104		105	103	101		101	100	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	93		95	93	91		92	91	89
3	103	96	91	87		101	95	90	87		92	88	85		90	87	84		88	85	83
4	97	90	84	80		96	89	84	80		87	82	79		85	81	78		83	80	77
5	93	84	78	74		91	83	78	74		82	77	73		80	76	73		78	75	72
6	88	79	73	69		86	78	73	69		77	72	68		75	71	68		74	70	67
7	84	74	68	64		82	74	68	64		72	67	64		71	67	63		70	66	63
8	80	70	64	60		78	70	64	60		68	63	60		67	63	59		66	62	59
9	76	66	60	56		75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53		71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54084
5°	52975
10°	49704
15°	45698
20°	41044
25°	36408
30°	30027
35°	19340
40°	9271
45°	3554
50°	1190
55°	762
60°	656
65°	259
70°	319
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	10.9
10°-20°	112.8	27.3
20°-30°	137.5	33.3
30°-40°	90.7	22.0
40°-50°	20.9	5.1
50°-60°	4.0	1.0
60°-70°	1.5	0.4
70°-80°	0.4	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°	295.3	71.5
0°-40°	386.0	93.5
0°-60°	410.9	99.5
0°-90°	412.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	495	
5°	483	45
15°	404	113
25°	302	137
35°	145	91
45°	23	21
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	495
2.5°	494
5°	483
7.5°	468
10°	448
12.5°	428
15°	404
17.5°	379
20°	353
22.5°	330
25°	302
27.5°	274
30°	238
32.5°	194
35°	145
37.5°	101
40°	65
42.5°	40
45°	23
47.5°	12
50°	7
52.5°	6
55°	4
57.5°	3
60°	3
62.5°	2
65°	1
67.5°	1
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0



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— 0°-180°







(END OF REPORT)