

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: **LE_4B10D010 EC4B10209027 4LBN1GPH**

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: LE_4B10D010 EC4B10209027 4LBN1GPH
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: 478.9 lumens
Efficiency: N/A
Efficacy: 49.4 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

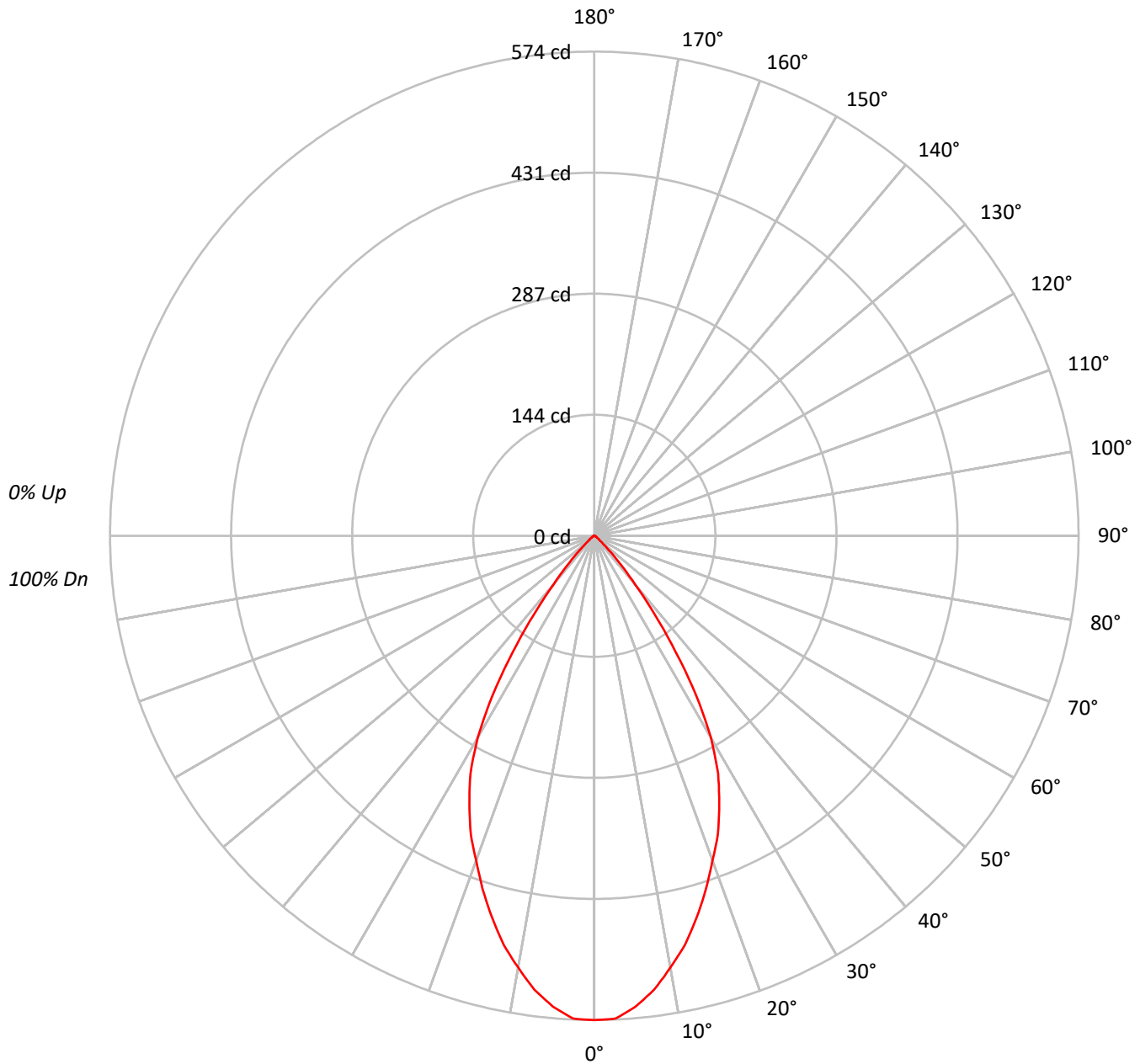
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62738
5°	61453
10°	57659
15°	53006
20°	47614
25°	42231
30°	34834
35°	22435
40°	10754
45°	4126
50°	1377
55°	876
60°	765
65°	310
70°	383
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	10.9
10°-20°	130.9	27.3
20°-30°	159.5	33.3
30°-40°	105.2	22.0
40°-50°	24.2	5.1
50°-60°	4.6	1.0
60°-70°	1.7	0.4
70°-80°	0.5	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°	342.6	71.5
0°-40°	447.8	93.5
0°-60°	476.6	99.5
0°-90°	478.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	574	
5°	560	52
15°	469	131
25°	350	159
35°	168	105
45°	27	24
55°	5	5
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	574.2
2.5°	573.0
5°	560.3
7.5°	542.9
10°	519.7
12.5°	496.5
15°	468.6
17.5°	439.6
20°	409.5
22.5°	382.8
25°	350.3
27.5°	317.8
30°	276.1
32.5°	225.0
35°	168.2
37.5°	117.2
40°	75.4
42.5°	46.4
45°	26.7
47.5°	13.9
50°	8.1
52.5°	7.0
55°	4.6
57.5°	3.5
60°	3.5
62.5°	2.3
65°	1.2
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
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)