

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: P210708

Luminaire Tested: **LE_4B10D010 EC4B10209024 4LBS1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210708
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: LE_4B10D010 EC4B10209024 4LBS1WMH
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH WARM 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: 895.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

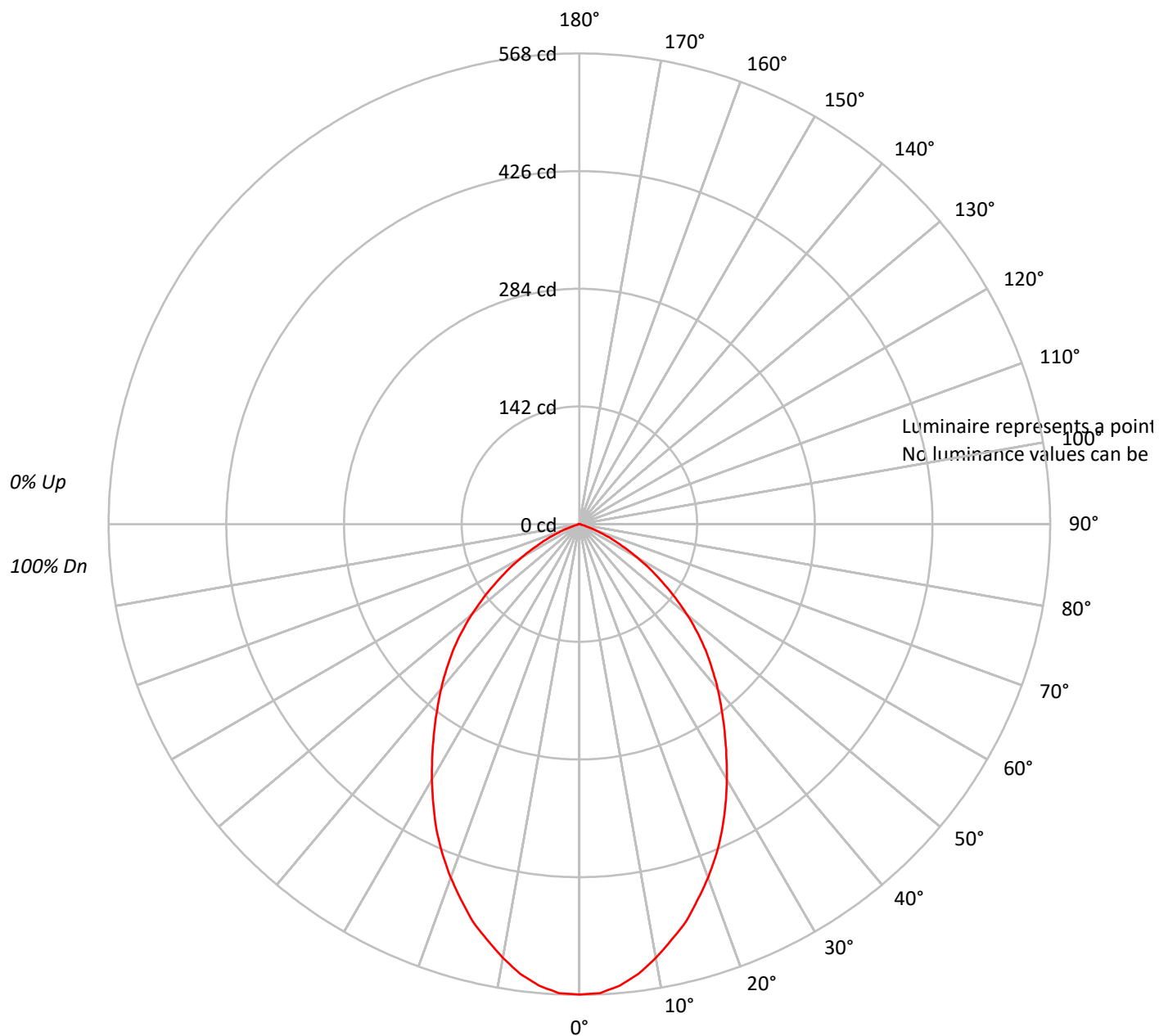
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





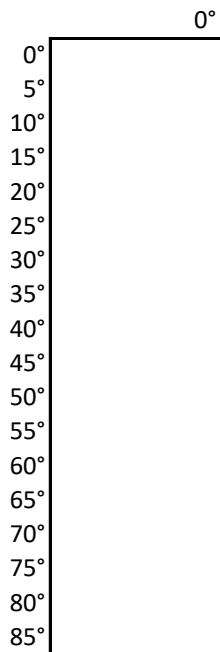
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	112	108	105	102		109	106	103	101		102	100	97		98	96	94		95	93	92
2	104	98	92	88		102	96	91	87		92	88	85		89	86	83		86	84	81
3	96	88	82	76		94	87	81	76		84	79	74		81	77	73		79	75	72
4	90	80	73	67		88	79	72	67		76	70	66		74	69	65		72	68	64
5	83	73	65	59		82	72	64	59		70	63	59		68	62	58		66	61	57
6	78	66	59	53		76	65	58	53		64	57	53		62	57	52		61	56	52
7	73	61	53	48		71	60	53	48		59	52	48		57	52	47		56	51	47
8	68	56	49	44		67	56	48	43		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		50	44	40		49	44	39		49	43	39
10	60	48	41	37		59	48	41	37		47	41	36		46	40	36		45	40	36

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	5.9
10°-20°	139.1	15.5
20°-30°	186.7	20.8
30°-40°	191.2	21.3
40°-50°	165.5	18.5
50°-60°	110.1	12.3
60°-70°	45.2	5.0
70°-80°	5.4	0.6
80°-90°	0.2	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°	378.3	42.2
0°-40°	569.5	63.6
0°-60°	845.0	94.3
0°-90°	895.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	568	
5°	559	52
15°	497	139
25°	408	187
35°	305	191
45°	216	165
55°	122	110
65°	45	45
75°	2	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	567.7
2.5°	566.5
5°	558.9
7.5°	547.2
10°	531.4
12.5°	513.8
15°	496.7
17.5°	475.0
20°	453.8
22.5°	431.5
25°	407.5
27.5°	381.6
30°	355.8
32.5°	330.0
35°	305.3
37.5°	281.8
40°	259.5
42.5°	237.2
45°	215.5
47.5°	192.6
50°	169.1
52.5°	145.6
55°	122.1
57.5°	101.6
60°	80.4
62.5°	61.0
65°	44.7
67.5°	29.3
70°	17.1
72.5°	8.2
75°	2.3
77.5°	1.2
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)