

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: P210803

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBCS1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210803
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 EC4B10208030 4LBCS1MMS
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK 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: 1098.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

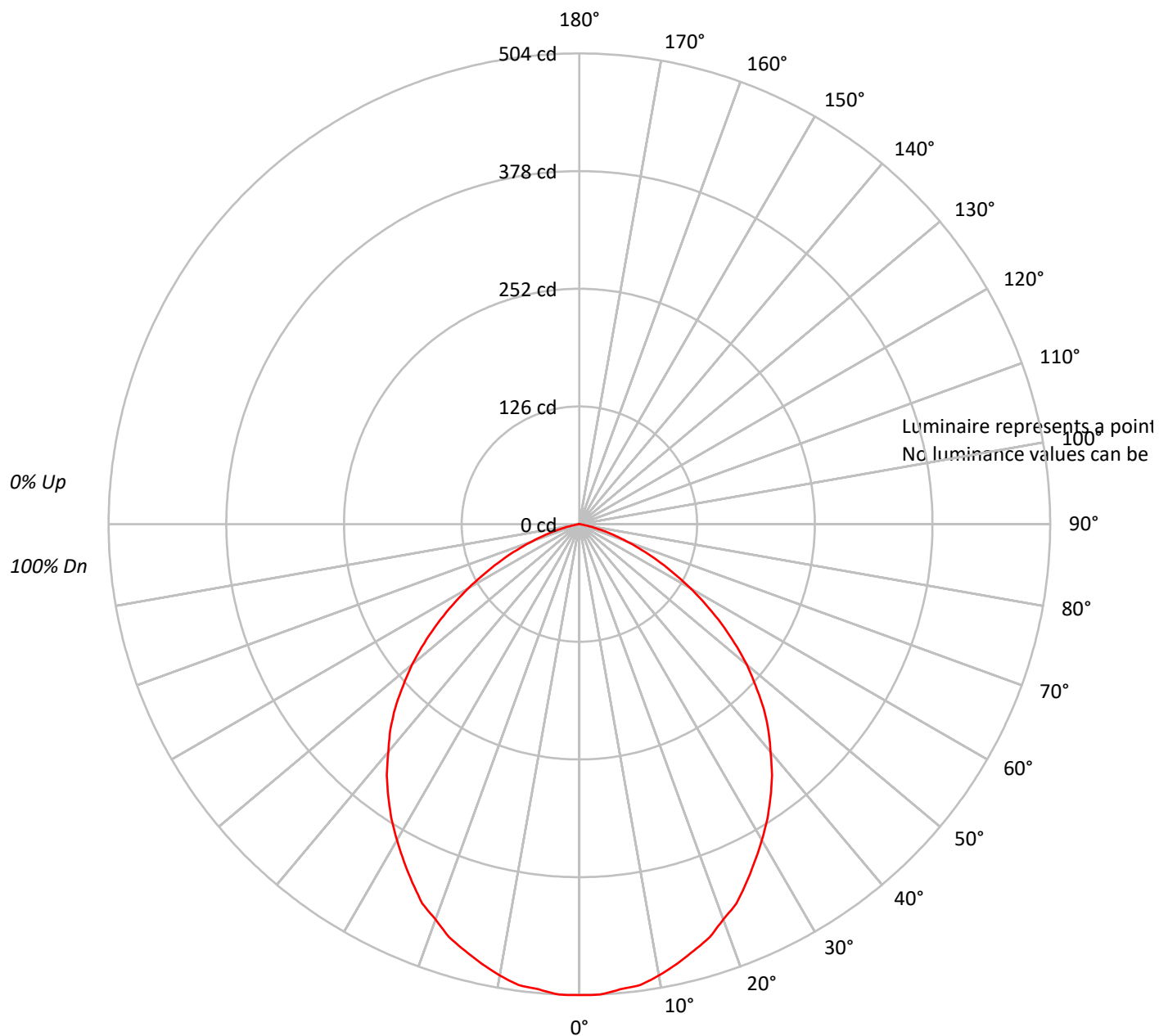
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100		108	105	101	98		100	98	95		97	94	92		93	91	90
2	102	95	89	84		99	93	88	83		90	85	81		86	83	79		83	80	78
3	94	85	77	72		92	83	76	71		80	74	70		77	73	69		75	71	67
4	87	76	68	62		84	74	67	61		72	66	61		70	64	60		68	63	59
5	80	68	60	54		78	67	59	54		65	58	53		63	57	53		61	56	52
6	74	62	54	48		72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	42		67	56	48	42		54	47	42		53	46	42		51	46	41
8	64	52	44	38		63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35		59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	36	31		55	43	36	31		43	36	31		42	35	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	4.3
10°-20°	133.3	12.1
20°-30°	194.8	17.7
30°-40°	222.8	20.3
40°-50°	214.1	19.5
50°-60°	165.3	15.1
60°-70°	92.3	8.4
70°-80°	26.9	2.4
80°-90°	1.2	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°	375.6	34.2
0°-40°	598.4	54.5
0°-60°	977.8	89.0
0°-90°	1098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	504	
5°	500	48
15°	473	133
25°	423	195
35°	357	223
45°	279	214
55°	185	165
65°	92	92
75°	23	27
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	504.3
2.5°	504.3
5°	500.1
7.5°	497.9
10°	490.8
12.5°	482.3
15°	473.0
17.5°	463.8
20°	450.3
22.5°	439.6
25°	423.3
27.5°	406.9
30°	390.7
32.5°	374.3
35°	356.6
37.5°	338.8
40°	318.2
42.5°	299.7
45°	279.1
47.5°	255.7
50°	233.6
52.5°	209.5
55°	185.4
57.5°	160.5
60°	137.1
62.5°	113.7
65°	92.3
67.5°	72.5
70°	53.9
72.5°	37.7
75°	23.4
77.5°	12.1
80°	4.3
82.5°	1.4
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)