

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: P210780

Luminaire Tested: **LE_4B10D010 EC4B10209727 4LBM1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210780
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 EC4B10209727 4LBM1MW
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 696.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

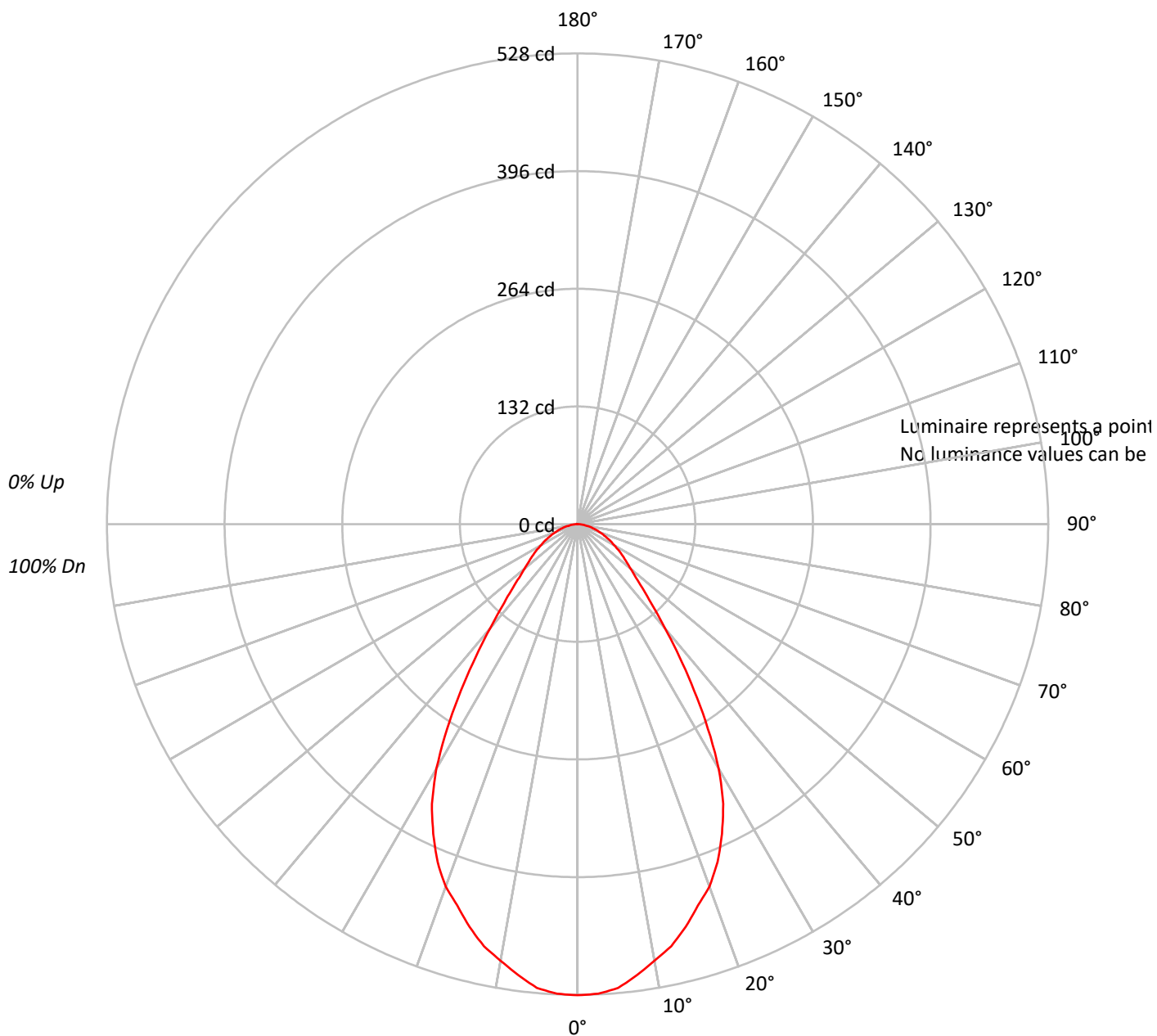
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		102	99	97		98	96	94		94	93	91
2	104	98	92	88		102	96	91	87		93	89	85		89	86	83		87	84	81
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		80	76	73
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	69	66
5	85	75	67	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	62	56		78	68	61	56		66	60	56		65	59	55		63	59	55
7	75	64	57	52		74	63	56	51		62	56	51		60	55	51		59	54	50
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	44		66	55	48	44		54	48	44		53	47	43		52	47	43
10	63	52	45	41		62	51	45	41		51	45	40		50	44	40		49	44	40

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	7.0
10°-20°	131.3	18.9
20°-30°	174.6	25.1
30°-40°	142.8	20.5
40°-50°	83.2	11.9
50°-60°	55.1	7.9
60°-70°	36.2	5.2
70°-80°	19.2	2.8
80°-90°	4.7	0.7
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°	354.8	51.0
0°-40°	497.7	71.5
0°-60°	636.0	91.4
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	528	
5°	522	49
15°	468	131
25°	383	175
35°	228	143
45°	105	83
55°	62	55
65°	36	36
75°	18	19
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	528.4
2.5°	527.3
5°	522.3
7.5°	510.3
10°	497.2
12.5°	485.0
15°	467.9
17.5°	448.7
20°	432.6
22.5°	410.4
25°	383.1
27.5°	353.9
30°	316.7
32.5°	272.3
35°	227.9
37.5°	187.6
40°	152.3
42.5°	125.0
45°	104.9
47.5°	88.7
50°	77.6
52.5°	68.6
55°	61.5
57.5°	54.4
60°	47.4
62.5°	42.3
65°	36.3
67.5°	31.2
70°	26.2
72.5°	22.2
75°	18.1
77.5°	14.2
80°	10.1
82.5°	7.1
85°	4.1
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)