

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: P211009

Luminaire Tested: **LE_4B10D010 EC4B10208050 4LBM1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211009
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 EC4B10208050 4LBM1GPH
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 696.6 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.92
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

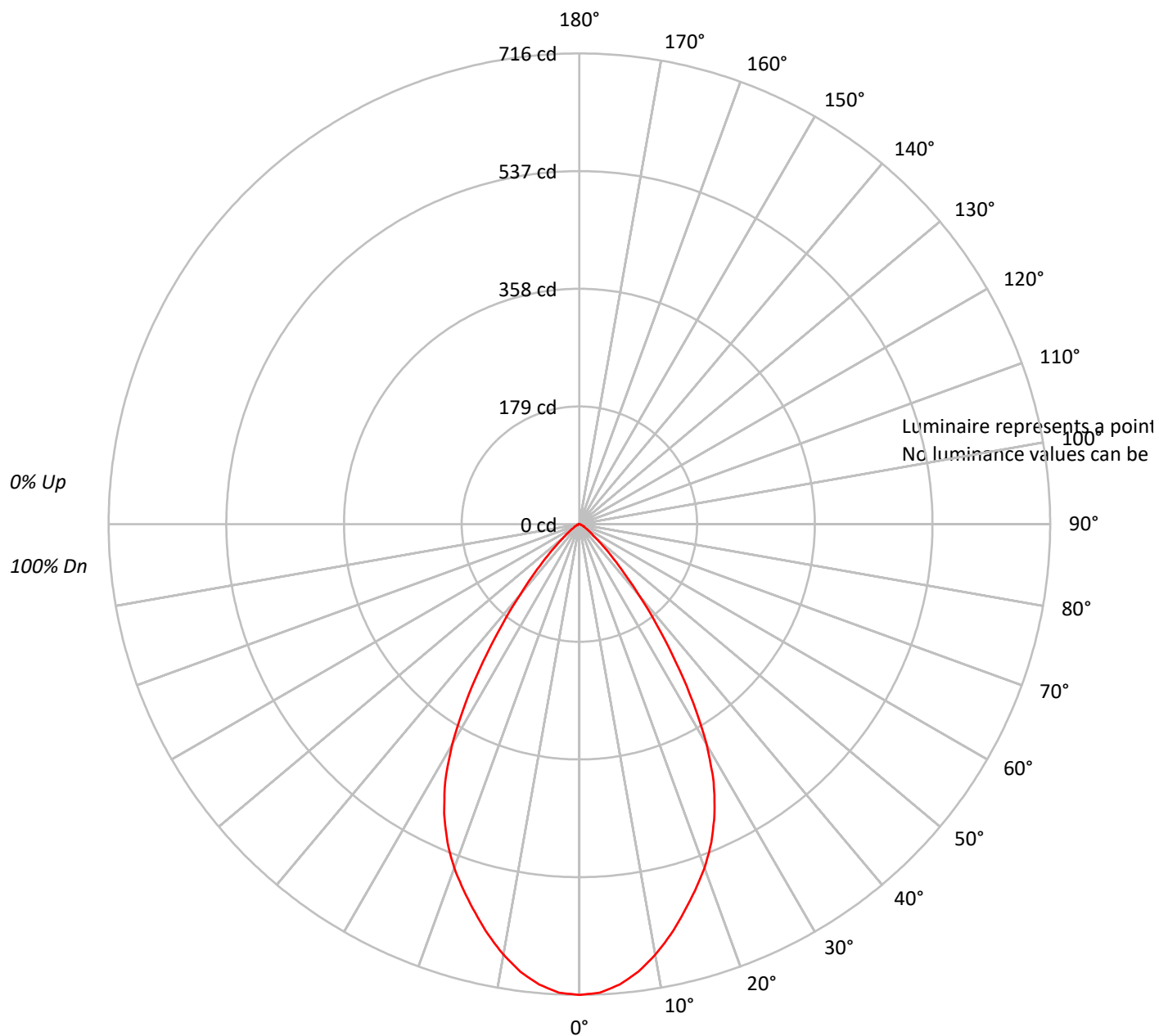
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91
3	102	95	90	85	100	93	89	85	91	87	83		88	85	82		86
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81
5	91	82	76	72	89	81	76	71	79	74	71		78	73	70		76
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		68
8	77	67	61	57	76	67	61	57	66	60	57		65	60	56		64
9	73	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	59	54	50	59	53	50		58	53	49		57

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	9.5
10°-20°	171.9	24.7
20°-30°	220.4	31.6
30°-40°	159.3	22.9
40°-50°	57.1	8.2
50°-60°	15.4	2.2
60°-70°	5.0	0.7
70°-80°	1.6	0.2
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°	458.2	65.8
0°-40°	617.5	88.6
0°-60°	690.0	99.1
0°-90°	696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	716	
5°	703	66
15°	612	172
25°	486	220
35°	255	159
45°	69	57
55°	16	15
65°	4	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	716.2
2.5°	713.3
5°	703.0
7.5°	686.8
10°	664.9
12.5°	640.0
15°	612.2
17.5°	584.4
20°	556.6
22.5°	524.3
25°	486.3
27.5°	442.3
30°	386.6
32.5°	322.2
35°	254.9
37.5°	193.4
40°	140.6
42.5°	99.6
45°	68.8
47.5°	46.9
50°	30.7
52.5°	21.9
55°	16.1
57.5°	11.7
60°	8.8
62.5°	7.3
65°	4.4
67.5°	2.9
70°	2.9
72.5°	1.5
75°	1.5
77.5°	1.5
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)