

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: P211054

Luminaire Tested: **LE_4B10D010 EC4B10209050 4LBS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211054
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 EC4B10209050 4LBS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW 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: 1111.5 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

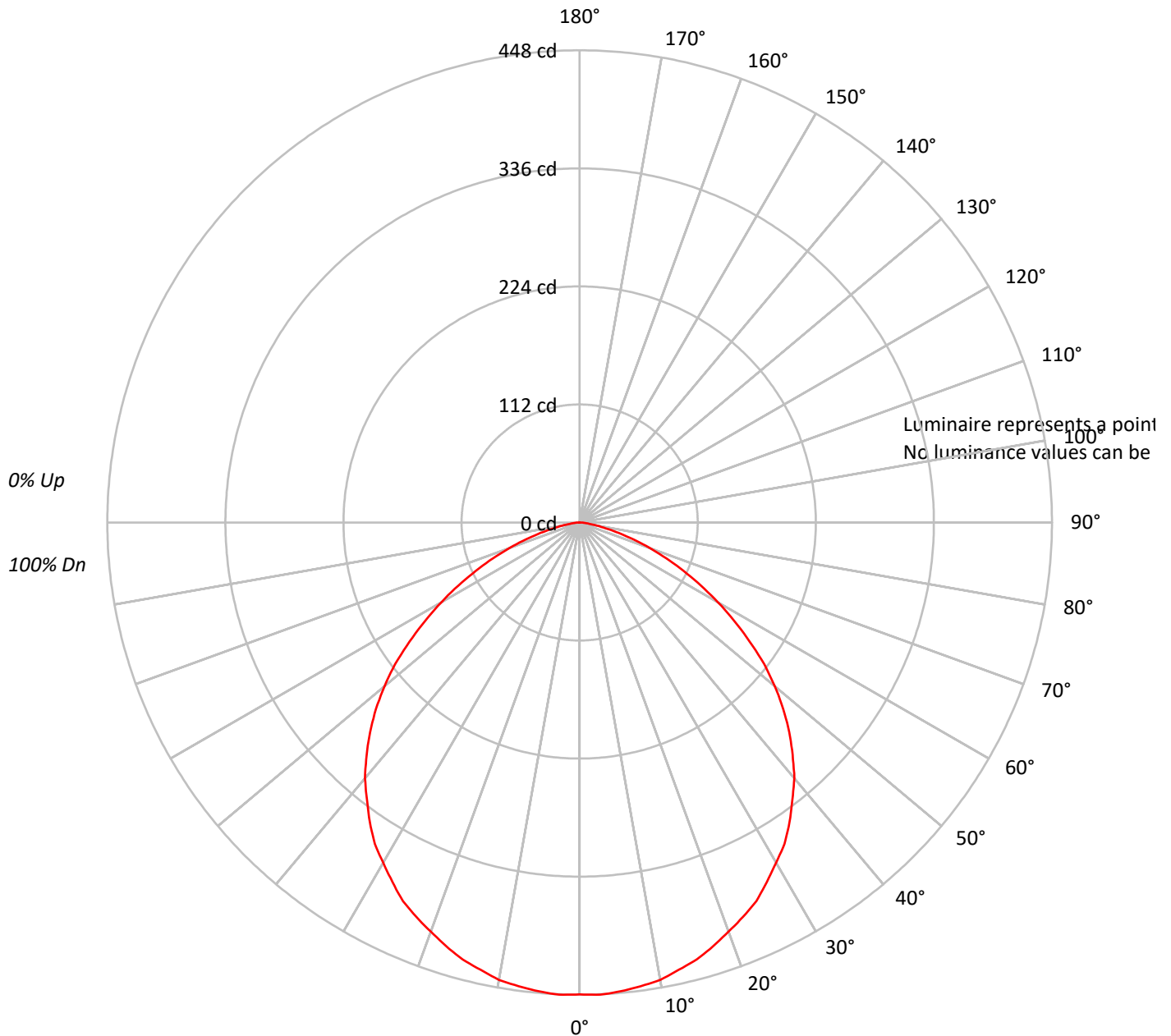
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82
3	93	83	75	69	90	81	74	69	78	72	67		76	70	66		73
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66
5	78	66	58	51	76	65	57	51	63	56	51		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	44		55	49	44		54
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49
8	63	50	41	36	61	49	41	36	48	41	35		46	40	35		45
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.8
10°-20°	120.9	10.9
20°-30°	182.1	16.4
30°-40°	216.8	19.5
40°-50°	216.3	19.5
50°-60°	175.9	15.8
60°-70°	108.2	9.7
70°-80°	42.0	3.8
80°-90°	6.7	0.6
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°	345.5	31.1
0°-40°	562.3	50.6
0°-60°	954.5	85.9
0°-90°	1111.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	448	
5°	446	42
15°	429	121
25°	396	182
35°	347	217
45°	281	216
55°	197	176
65°	109	108
75°	38	42
85°	5	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	447.8
2.5°	448.5
5°	446.5
7.5°	443.8
10°	440.6
12.5°	434.7
15°	429.3
17.5°	421.4
20°	413.0
22.5°	405.0
25°	396.5
27.5°	384.5
30°	372.7
32.5°	361.6
35°	347.1
37.5°	331.3
40°	316.8
42.5°	298.9
45°	281.2
47.5°	262.0
50°	241.6
52.5°	220.6
55°	196.9
57.5°	173.9
60°	151.5
62.5°	129.7
65°	108.7
67.5°	88.9
70°	70.4
72.5°	53.4
75°	38.2
77.5°	25.1
80°	15.2
82.5°	9.2
85°	5.2
87.5°	2.7
90°	0.0



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— 0°-180°







(END OF REPORT)