

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: P210977

Luminaire Tested: **LE_4B10D010 EC4B10209040 4LBCS1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210977
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 EC4B10209040 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: 952.7 lumens
Efficiency: N/A
Efficacy: 96.2 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

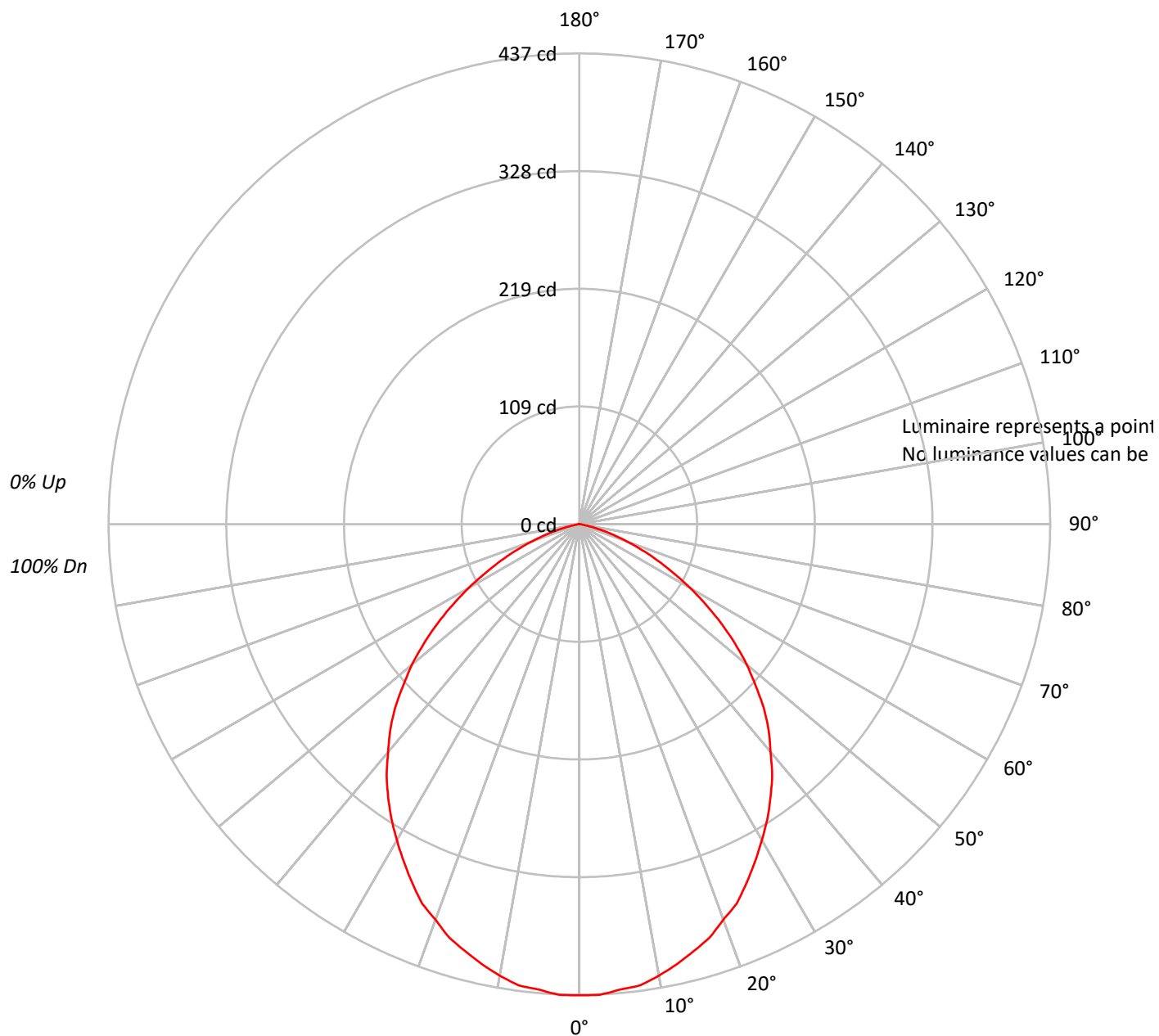
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57		
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	34	59	47	40	34	46	39	34	45	39	34	44	38	34	32		
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	4.3
10°-20°	115.7	12.1
20°-30°	169.0	17.7
30°-40°	193.3	20.3
40°-50°	185.8	19.5
50°-60°	143.4	15.1
60°-70°	80.1	8.4
70°-80°	23.3	2.4
80°-90°	1.0	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°	325.9	34.2
0°-40°	519.2	54.5
0°-60°	848.3	89.0
0°-90°	952.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	952.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	437	
5°	434	41
15°	410	116
25°	367	169
35°	309	193
45°	242	186
55°	161	143
65°	80	80
75°	20	23
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	437.4
2.5°	437.4
5°	433.8
7.5°	432.0
10°	425.7
12.5°	418.4
15°	410.4
17.5°	402.4
20°	390.7
22.5°	381.4
25°	367.3
27.5°	353.1
30°	338.8
32.5°	324.7
35°	309.4
37.5°	293.9
40°	276.1
42.5°	260.1
45°	242.2
47.5°	221.8
50°	202.8
52.5°	181.8
55°	160.8
57.5°	139.2
60°	118.9
62.5°	98.6
65°	80.2
67.5°	62.9
70°	46.9
72.5°	32.7
75°	20.3
77.5°	10.4
80°	3.7
82.5°	1.3
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)