

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: P211993

Luminaire Tested: **LE_4B30D010 EC4B30509730 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211993
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_4B30D010 EC4B30509730 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.4 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

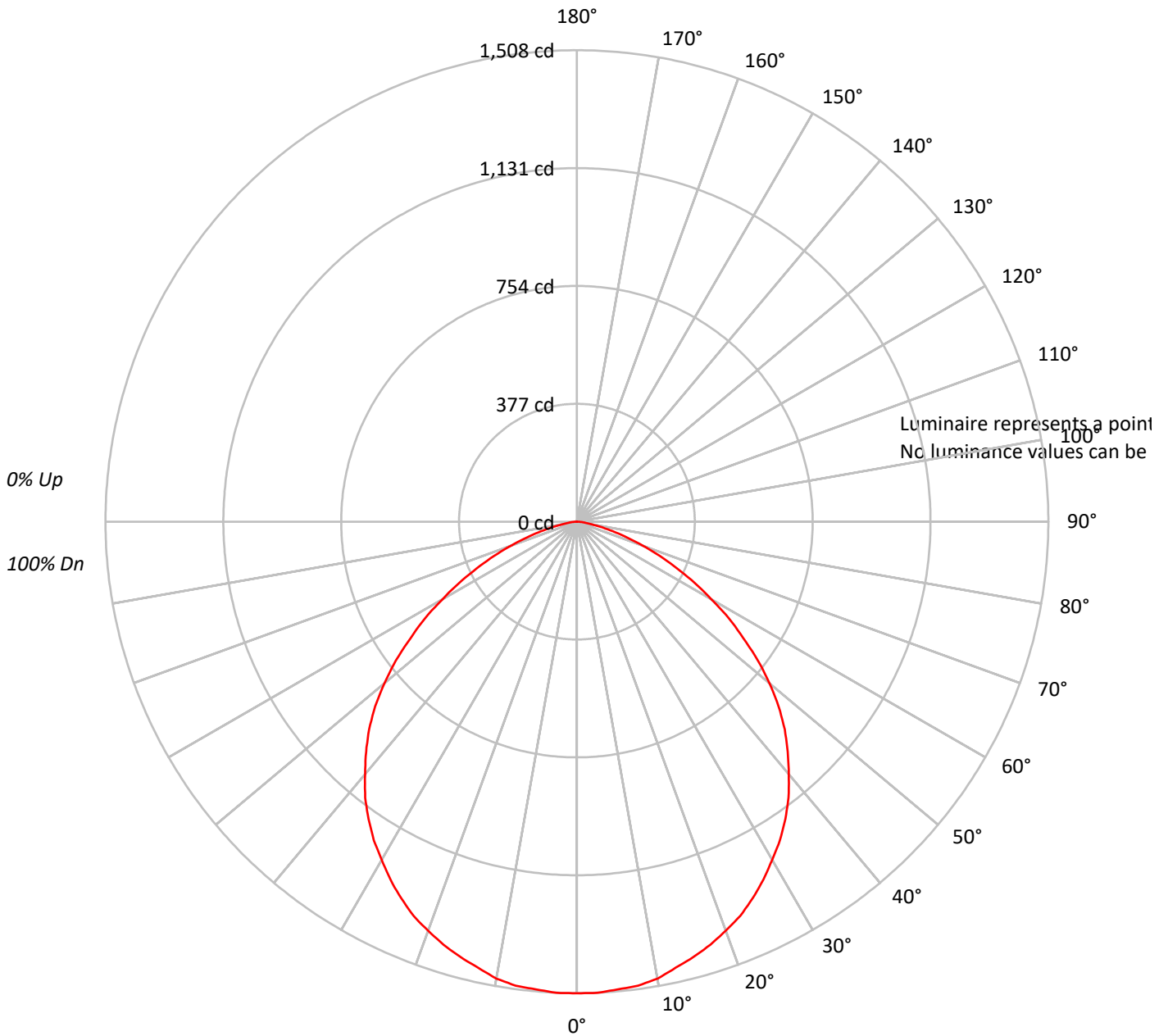
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74				74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63				63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33				33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.9
10°-20°	406.9	11.0
20°-30°	612.1	16.6
30°-40°	725.4	19.6
40°-50°	721.9	19.5
50°-60°	581.9	15.8
60°-70°	352.1	9.5
70°-80°	130.7	3.5
80°-90°	19.5	0.5
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°	1161.9	31.5
0°-40°	1887.3	51.1
0°-60°	3191.1	86.4
0°-90°	3693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1508	
5°	1502	143
15°	1441	407
25°	1330	612
35°	1162	725
45°	940	722
55°	649	582
65°	354	352
75°	119	131
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1508.5
2.5°	1508.5
5°	1501.7
7.5°	1497.3
10°	1483.9
12.5°	1461.5
15°	1441.3
17.5°	1418.9
20°	1392.1
22.5°	1365.2
25°	1329.5
27.5°	1291.4
30°	1248.9
32.5°	1208.6
35°	1161.6
37.5°	1112.3
40°	1054.1
42.5°	998.2
45°	939.9
47.5°	875.1
50°	803.5
52.5°	729.6
55°	649.0
57.5°	577.4
60°	496.8
62.5°	425.3
65°	353.6
67.5°	286.5
70°	223.8
72.5°	167.9
75°	118.7
77.5°	76.1
80°	44.8
82.5°	26.9
85°	15.7
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)