

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: P211903

Luminaire Tested: **LE_4B30D010 EC4B30509027 4LBW1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211903
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 EC4B30509027 4LBW1WH
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH WHEAT 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: 2412.6 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

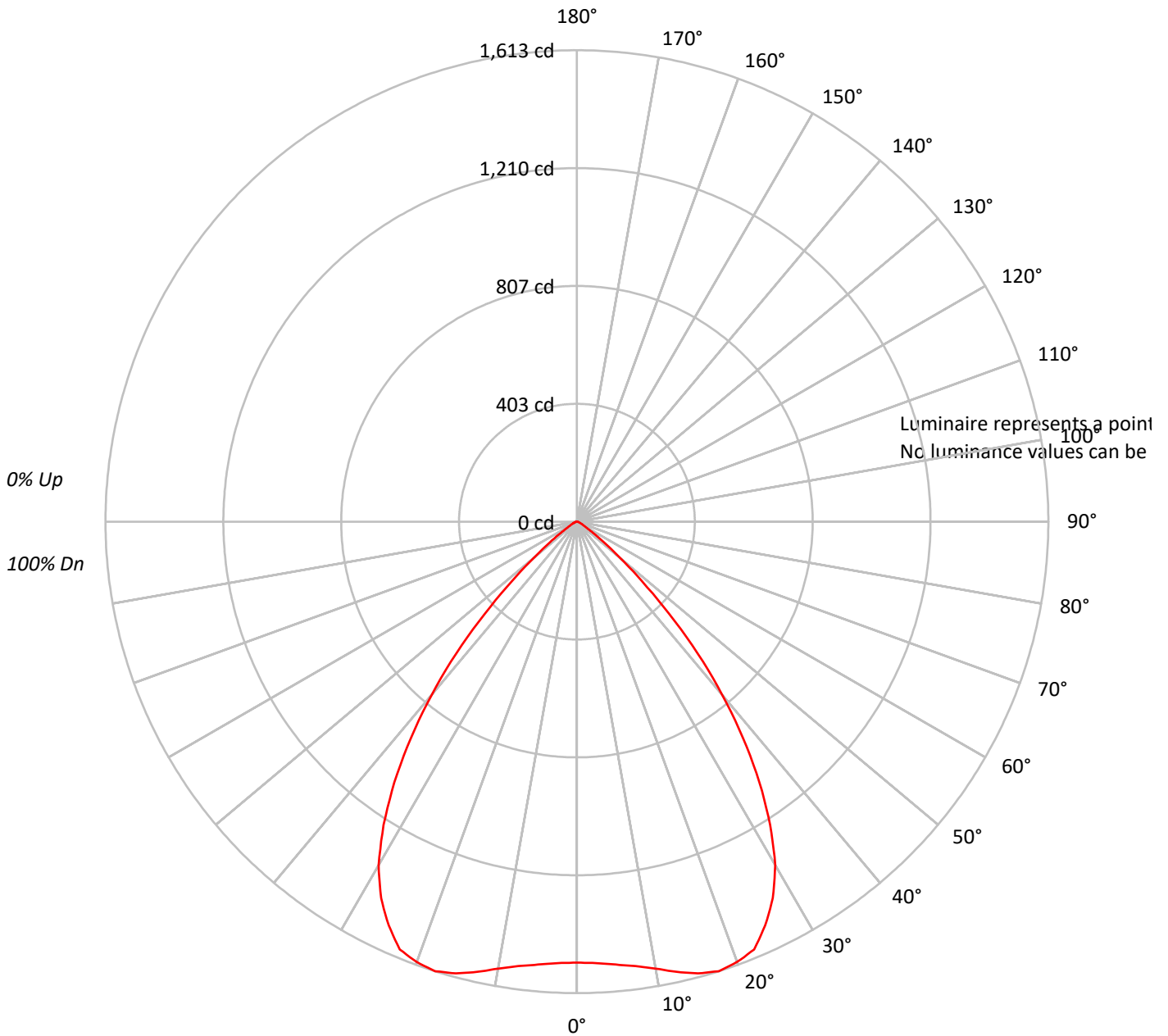
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84				84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76				76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69				69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63				63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58				58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53				53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49				49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45				45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	6.1
10°-20°	452.1	18.7
20°-30°	695.5	28.8
30°-40°	671.1	27.8
40°-50°	349.9	14.5
50°-60°	73.7	3.1
60°-70°	17.1	0.7
70°-80°	6.6	0.3
80°-90°	0.4	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°	1293.8	53.6
0°-40°	1964.9	81.4
0°-60°	2388.4	99.0
0°-90°	2412.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2412.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1508	
5°	1521	146
15°	1600	452
25°	1524	696
35°	1089	671
45°	445	350
55°	66	74
65°	16	17
75°	6	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1508.5
2.5°	1511.6
5°	1521.1
7.5°	1533.8
10°	1552.7
12.5°	1577.9
15°	1600.0
17.5°	1612.6
20°	1603.1
22.5°	1584.2
25°	1524.2
27.5°	1451.6
30°	1357.0
32.5°	1230.8
35°	1088.8
37.5°	934.1
40°	773.1
42.5°	612.2
45°	445.0
47.5°	299.7
50°	192.6
52.5°	116.8
55°	66.2
57.5°	41.1
60°	28.4
62.5°	22.0
65°	15.8
67.5°	12.6
70°	9.5
72.5°	9.5
75°	6.3
77.5°	3.1
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)