

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: P212018

Luminaire Tested: **LE_4B30D010 EC4B30509730 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212018
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 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH 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: 2207.1 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

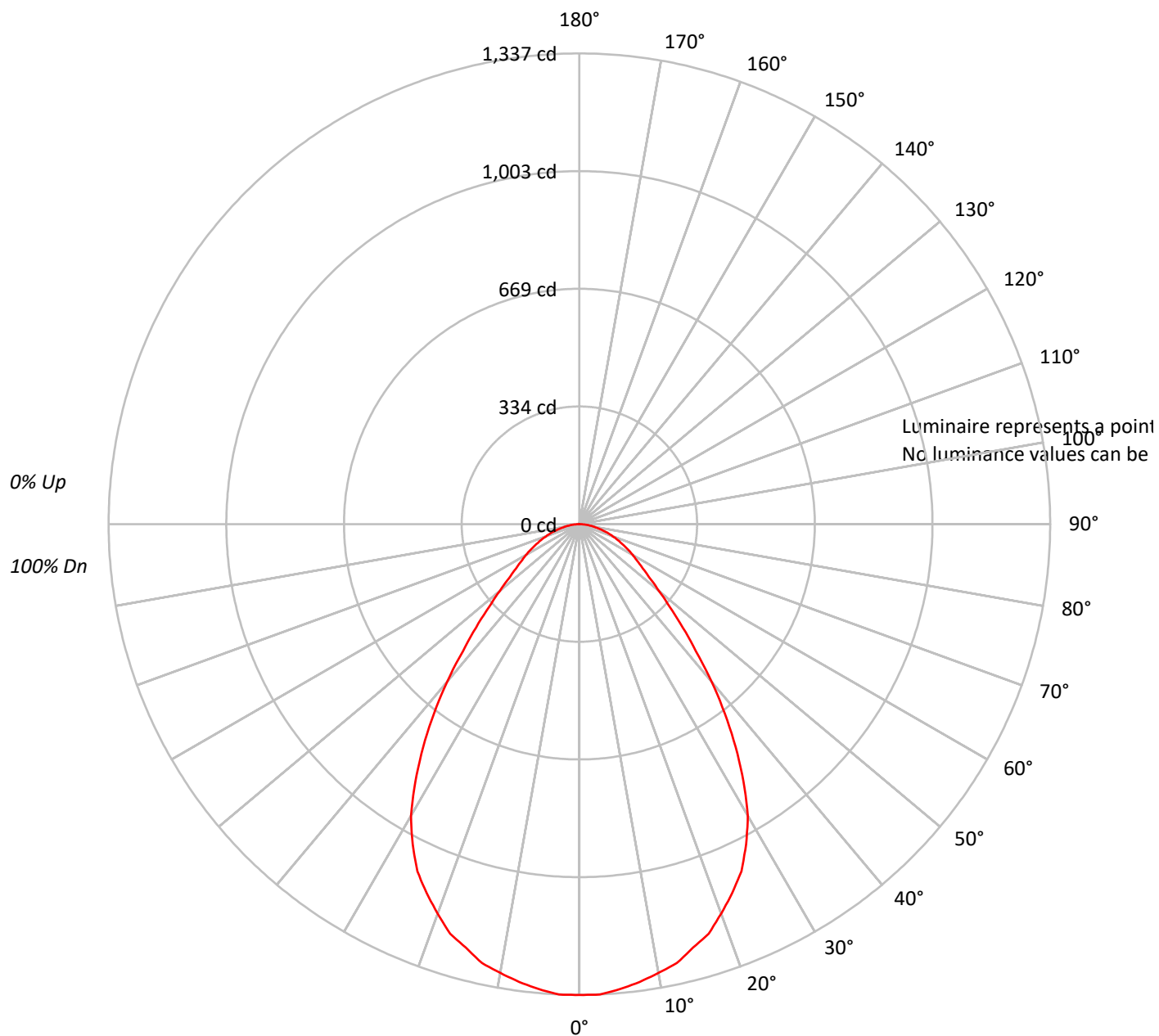
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85
3	96	87	80	75	93	85	79	74	83	77	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	5.7
10°-20°	351.2	15.9
20°-30°	496.3	22.5
30°-40°	480.7	21.8
40°-50°	324.4	14.7
50°-60°	201.4	9.1
60°-70°	134.5	6.1
70°-80°	73.6	3.3
80°-90°	19.5	0.9
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°	973.0	44.1
0°-40°	1453.7	65.9
0°-60°	1979.4	89.7
0°-90°	2207.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2207.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1337	
5°	1326	126
15°	1246	351
25°	1088	496
35°	773	481
45°	415	324
55°	220	201
65°	135	135
75°	69	74
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1337.4
2.5°	1337.4
5°	1325.9
7.5°	1311.6
10°	1294.4
12.5°	1277.3
15°	1245.7
17.5°	1220.0
20°	1177.1
22.5°	1134.0
25°	1088.2
27.5°	1025.2
30°	956.5
32.5°	867.7
35°	773.3
37.5°	678.7
40°	584.2
42.5°	489.8
45°	415.3
47.5°	346.5
50°	295.0
52.5°	252.1
55°	220.5
57.5°	194.8
60°	174.7
62.5°	154.6
65°	134.6
67.5°	117.4
70°	100.2
72.5°	86.0
75°	68.8
77.5°	54.4
80°	40.1
82.5°	28.7
85°	17.2
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)