

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: P212033

Luminaire Tested: **LE_4B30D010 EC4B30508035 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212033
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 EC4B30508035 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 2474.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

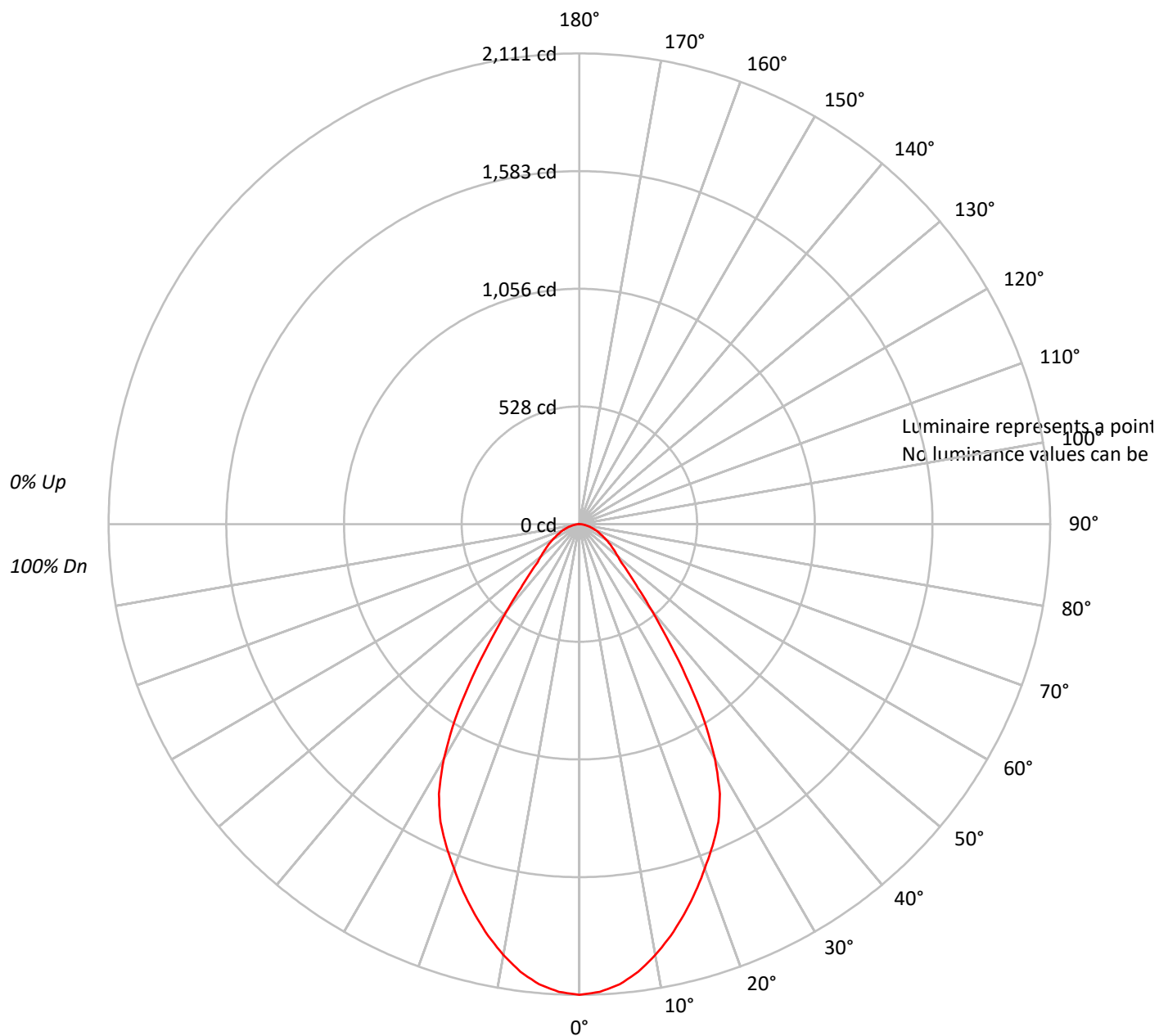
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	85	83
3	98	90	84	80		96	89	83	79		86	82	78		84	80	76		81	78	75
4	92	83	76	71		90	82	76	71		80	74	70		78	73	69		76	72	68
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63
6	82	71	64	59		80	70	64	59		69	63	58		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		62	57	53
8	73	62	55	50		71	61	55	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46		68	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	7.8
10°-20°	508.2	20.5
20°-30°	668.9	27.0
30°-40°	520.7	21.0
40°-50°	252.9	10.2
50°-60°	159.8	6.5
60°-70°	103.1	4.2
70°-80°	53.9	2.2
80°-90°	13.3	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°	1371.3	55.4
0°-40°	1892.0	76.4
0°-60°	2304.6	93.1
0°-90°	2474.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2111	
5°	2072	194
15°	1812	508
25°	1474	669
35°	834	521
45°	314	253
55°	177	160
65°	102	103
75°	51	54
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2111.2
2.5°	2099.5
5°	2072.0
7.5°	2024.8
10°	1961.9
12.5°	1891.0
15°	1812.5
17.5°	1729.9
20°	1643.4
22.5°	1560.8
25°	1474.4
27.5°	1364.3
30°	1214.9
32.5°	1038.0
35°	833.5
37.5°	644.7
40°	499.3
42.5°	389.2
45°	314.5
47.5°	255.5
50°	224.1
52.5°	200.6
55°	176.9
57.5°	157.3
60°	137.6
62.5°	118.0
65°	102.2
67.5°	90.5
70°	74.7
72.5°	62.9
75°	51.2
77.5°	39.3
80°	27.5
82.5°	19.6
85°	11.8
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)