

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: P212059

Luminaire Tested: **LE_4B30D010 EC4B30509035 4LBN1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212059
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 EC4B30509035 4LBN1GPH
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH GRAPHITE HAZE 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: 1373.8 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

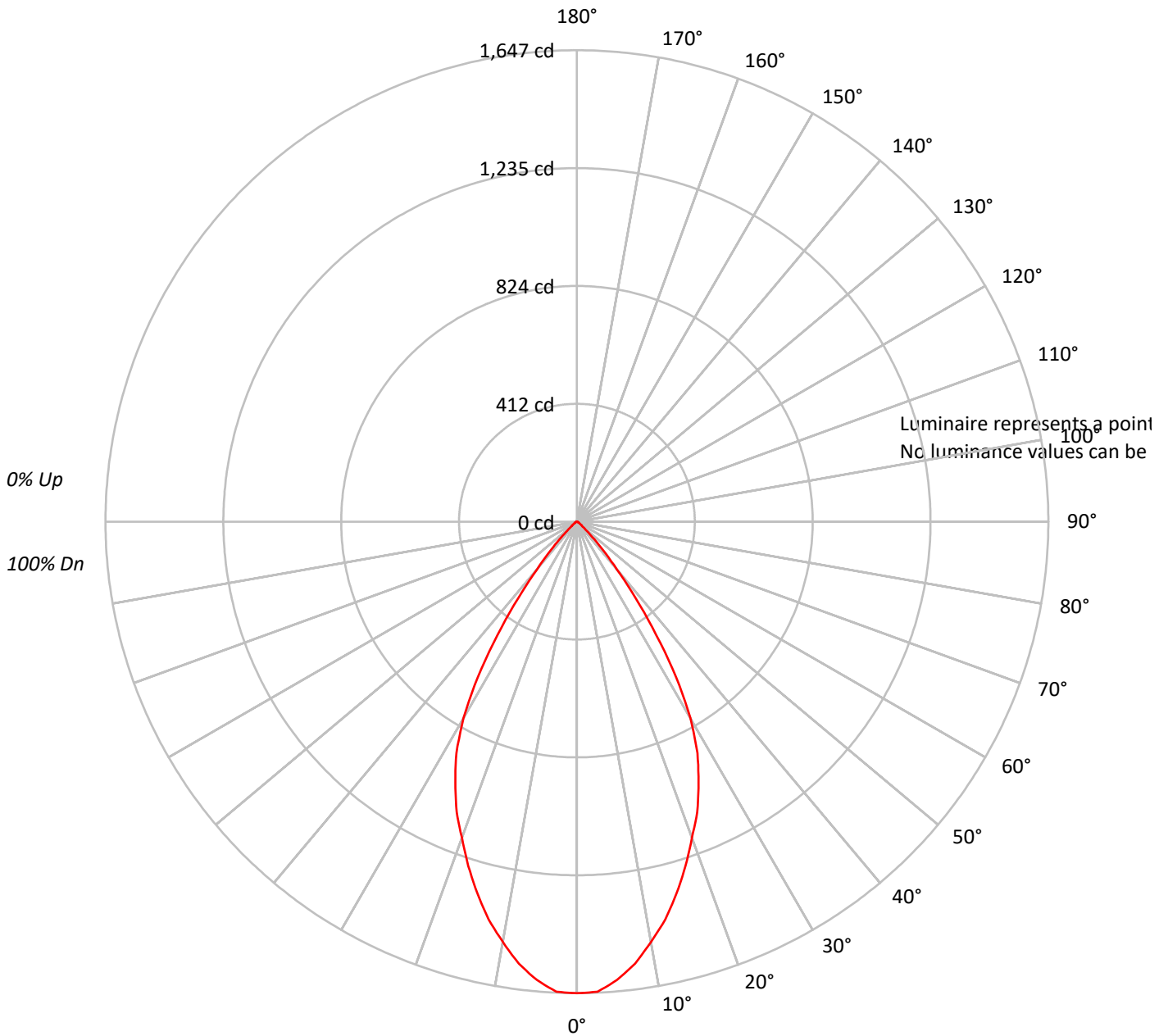
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20								
RC	80									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	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	100	100	100	100	100	100	100	100	100	100	100														
	1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94													
	2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87												
	3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81												
	4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76											
	5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70											
	6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66											
	7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62											
	8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58											
	9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55											
	10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51											

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	10.9
10°-20°	375.4	27.3
20°-30°	457.6	33.3
30°-40°	301.9	22.0
40°-50°	69.5	5.1
50°-60°	13.3	1.0
60°-70°	4.9	0.4
70°-80°	1.3	0.1
80°-90°	0.0	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°	982.8	71.5
0°-40°	1284.7	93.5
0°-60°	1367.5	99.5
0°-90°	1373.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1647	
5°	1607	150
15°	1344	375
25°	1005	458
35°	483	302
45°	77	70
55°	13	13
65°	3	5
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1647.3
2.5°	1644.0
5°	1607.3
7.5°	1557.4
10°	1490.8
12.5°	1424.4
15°	1344.4
17.5°	1261.3
20°	1174.7
22.5°	1098.2
25°	1005.0
27.5°	911.9
30°	792.0
32.5°	645.7
35°	482.6
37.5°	336.2
40°	216.3
42.5°	133.2
45°	76.6
47.5°	39.9
50°	23.3
52.5°	20.0
55°	13.3
57.5°	10.0
60°	10.0
62.5°	6.6
65°	3.4
67.5°	3.4
70°	3.4
72.5°	3.4
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)