

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: P208505

Luminaire Tested: **LD4B30D010 EU4B30509035 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208505
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: LD4B30D010 EU4B30509035 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW 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: 1660.2 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

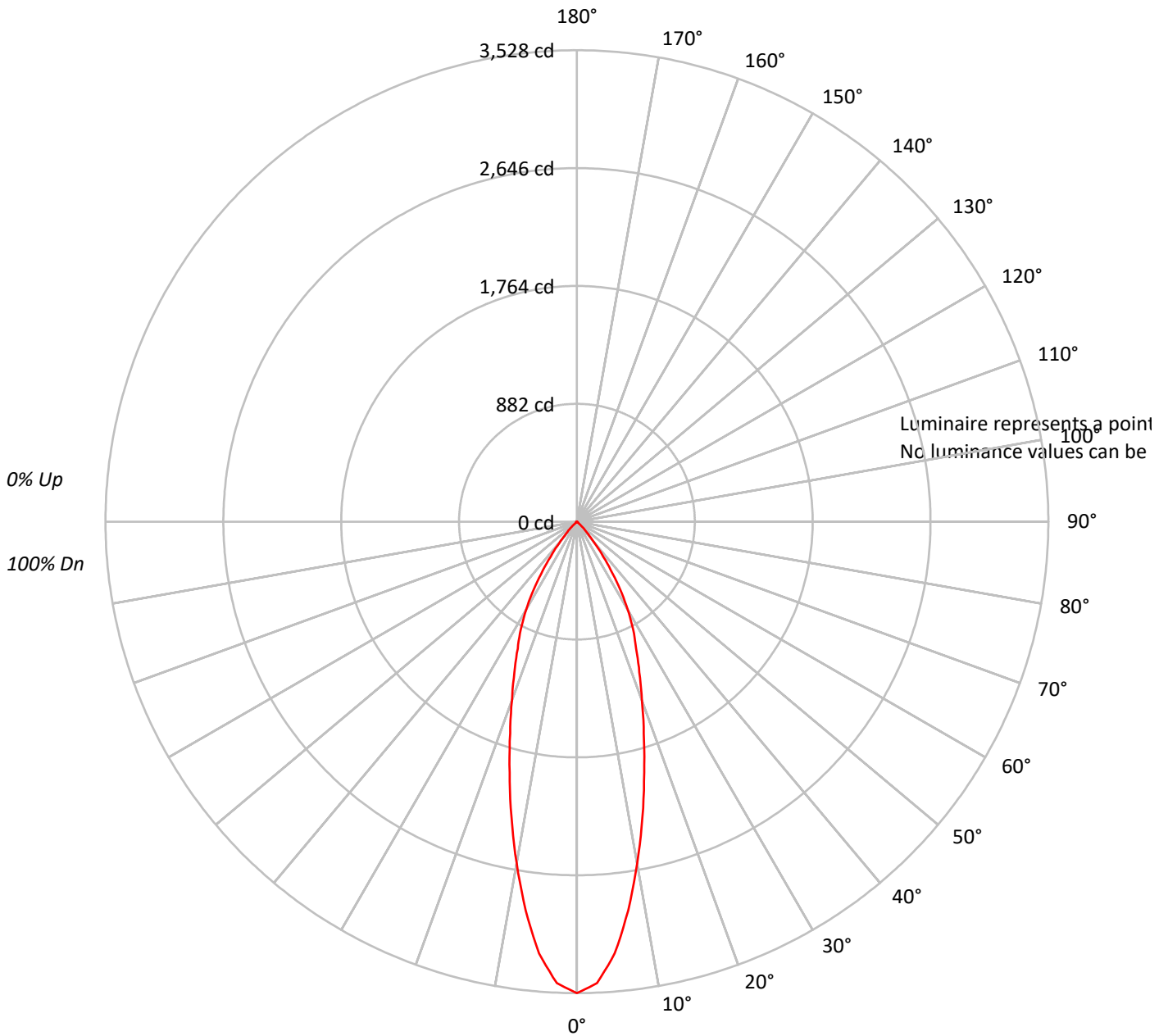
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95																
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89																
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			84																
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			79																
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			75																
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			71																
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			67																
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			64																
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			61																
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			58																

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	17.4
10°-20°	541.2	32.6
20°-30°	485.6	29.3
30°-40°	278.6	16.8
40°-50°	55.6	3.3
50°-60°	7.0	0.4
60°-70°	3.2	0.2
70°-80°	0.4	0.0
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°	1315.3	79.2
0°-40°	1593.9	96.0
0°-60°	1656.6	99.8
0°-90°	1660.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3528	
5°	3244	289
15°	1943	541
25°	1049	486
35°	441	279
45°	60	56
55°	9	7
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3528.2
2.5°	3456.5
5°	3244.4
7.5°	2934.9
10°	2596.7
12.5°	2264.2
15°	1943.2
17.5°	1662.3
20°	1421.6
22.5°	1221.0
25°	1049.0
27.5°	911.4
30°	759.5
32.5°	604.7
35°	441.4
37.5°	300.9
40°	186.3
42.5°	111.8
45°	60.2
47.5°	25.8
50°	11.5
52.5°	8.6
55°	8.6
57.5°	5.7
60°	5.7
62.5°	2.9
65°	2.9
67.5°	2.9
70°	2.9
72.5°	0.0
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)