

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: P206869

Luminaire Tested: **LD4B40D010 EU4B30508030 4LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206869  
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: LD4B40D010 EU4B30508030 4LBWGPH1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM  
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W  
DL3-44.71W DLE-39.33W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2675.1 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

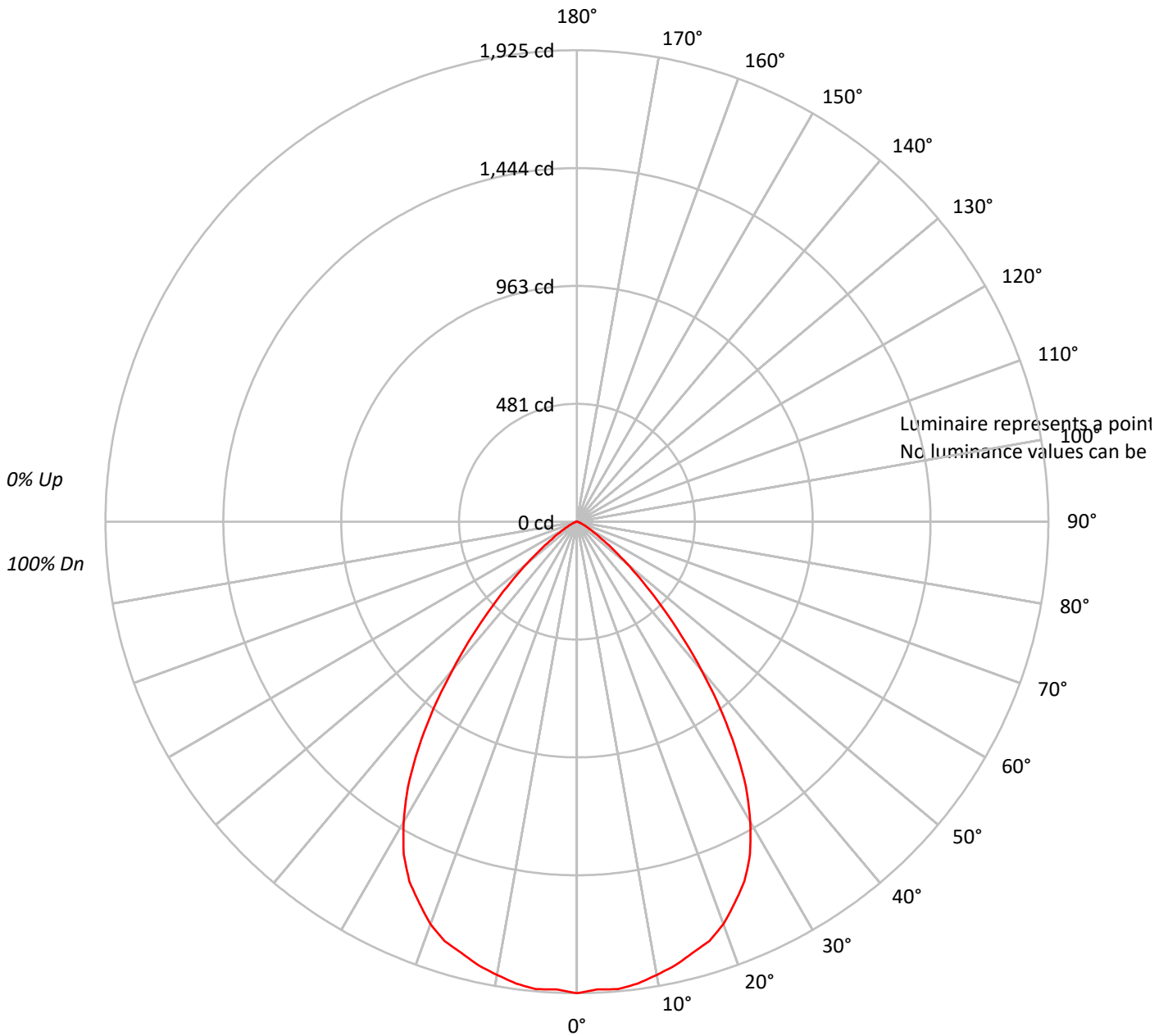
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P206869

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBWGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P206869

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBWGPH1

**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	99	100	98	96	96	95	94	92				92
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76				76
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69				69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63				63
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57				57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53				53
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48				48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	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):**





TEST NUMBER: P206869

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBWGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	6.8
10°-20°	514.7	19.2
20°-30°	738.1	27.6
30°-40°	695.0	26.0
40°-50°	383.8	14.3
50°-60°	123.1	4.6
60°-70°	30.8	1.2
70°-80°	7.3	0.3
80°-90°	0.6	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°	1434.4	53.6
0°-40°	2129.4	79.6
0°-60°	2636.3	98.6
0°-90°	2675.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1925	
5°	1916	182
15°	1823	515
25°	1619	738
35°	1127	695
45°	487	384
55°	125	123
65°	28	31
75°	5	7
85°	0	1
90°	0	



TEST NUMBER: P206869

CATALOG NUMBER: LD4B40D010 EU4B30508030 4LBWGPH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1925.4
2.5°	1911.5
5°	1916.1
7.5°	1902.2
10°	1879.0
12.5°	1855.8
15°	1823.3
17.5°	1795.5
20°	1749.1
22.5°	1684.1
25°	1619.2
27.5°	1531.0
30°	1415.0
32.5°	1285.1
35°	1127.4
37.5°	960.4
40°	788.7
42.5°	631.0
45°	487.1
47.5°	366.5
50°	264.4
52.5°	185.6
55°	125.3
57.5°	83.5
60°	60.3
62.5°	41.8
65°	27.8
67.5°	18.6
70°	13.9
72.5°	9.3
75°	4.6
77.5°	4.6
80°	4.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)