

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: P207186

Luminaire Tested: **LD4B40D010 EU4B30509040 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207186
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 EU4B30509040 4LBMH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 2667.2 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

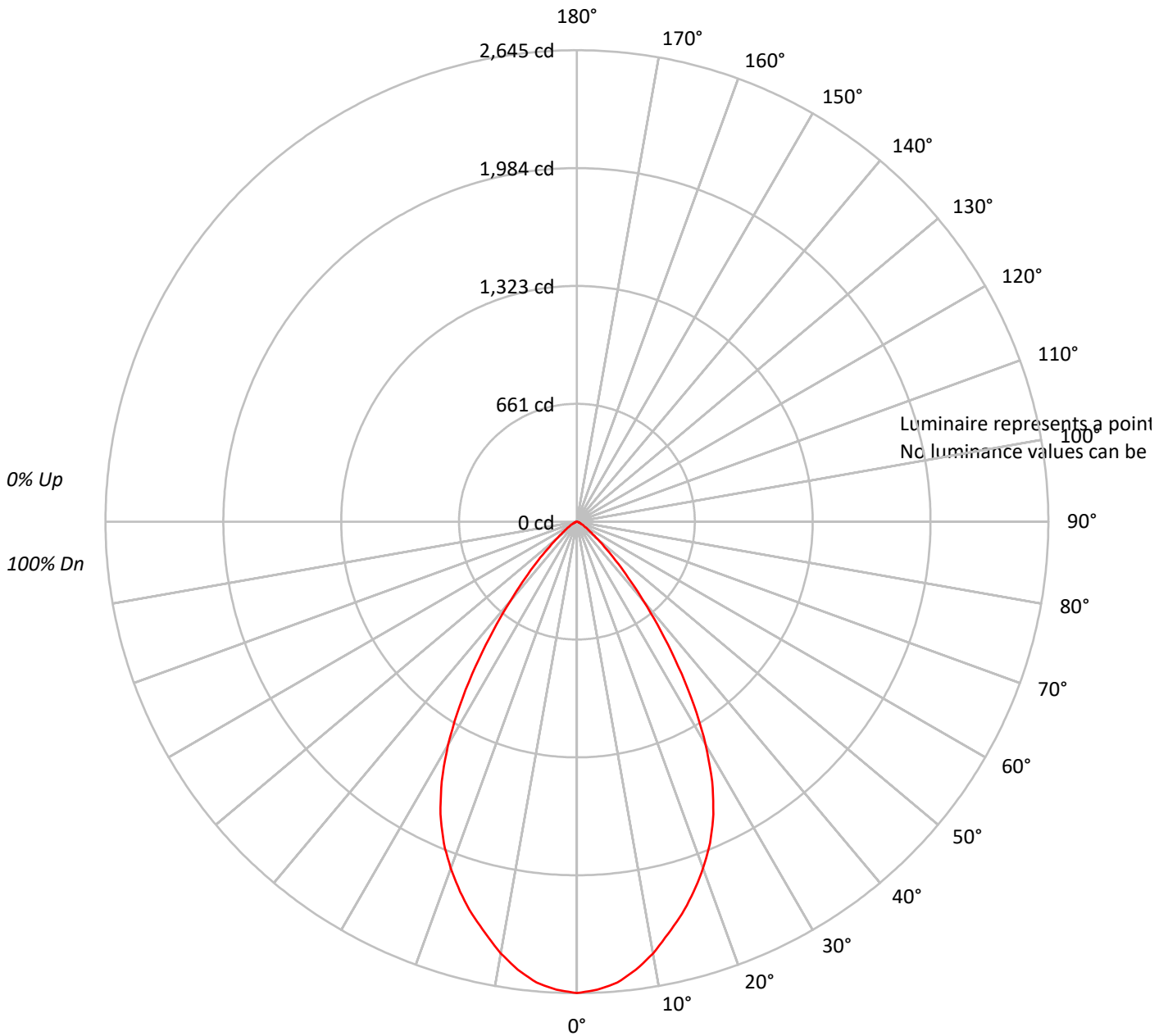
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207186

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBMH1

Luminous Intensity Polar Plot





TEST NUMBER: P207186

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBMH1

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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73																			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67																			
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207186

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	9.1
10°-20°	638.4	23.9
20°-30°	820.5	30.8
30°-40°	617.3	23.1
40°-50°	247.9	9.3
50°-60°	70.5	2.6
60°-70°	22.3	0.8
70°-80°	6.4	0.2
80°-90°	0.5	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°	1702.3	63.8
0°-40°	2319.6	87.0
0°-60°	2638.0	98.9
0°-90°	2667.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2645	
5°	2596	243
15°	2278	638
25°	1812	820
35°	990	617
45°	306	248
55°	72	70
65°	20	22
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P207186

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBMH1

CANDELA DISTRIBUTION (FULL):

0°	
0°	2644.7
2.5°	2628.6
5°	2596.4
7.5°	2536.0
10°	2459.6
12.5°	2367.0
15°	2278.4
17.5°	2177.8
20°	2069.1
22.5°	1952.3
25°	1811.5
27.5°	1642.4
30°	1445.1
32.5°	1223.7
35°	990.3
37.5°	772.9
40°	579.7
42.5°	426.7
45°	305.9
47.5°	209.3
50°	144.9
52.5°	100.6
55°	72.5
57.5°	52.3
60°	40.3
62.5°	28.2
65°	20.1
67.5°	16.1
70°	12.1
72.5°	8.1
75°	4.0
77.5°	4.0
80°	4.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)