

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: P207083

Luminaire Tested: **LD4B40D010 EU4B30509040 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207083
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 4LBWMW1
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH MATTE WHITE 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: 3097.6 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

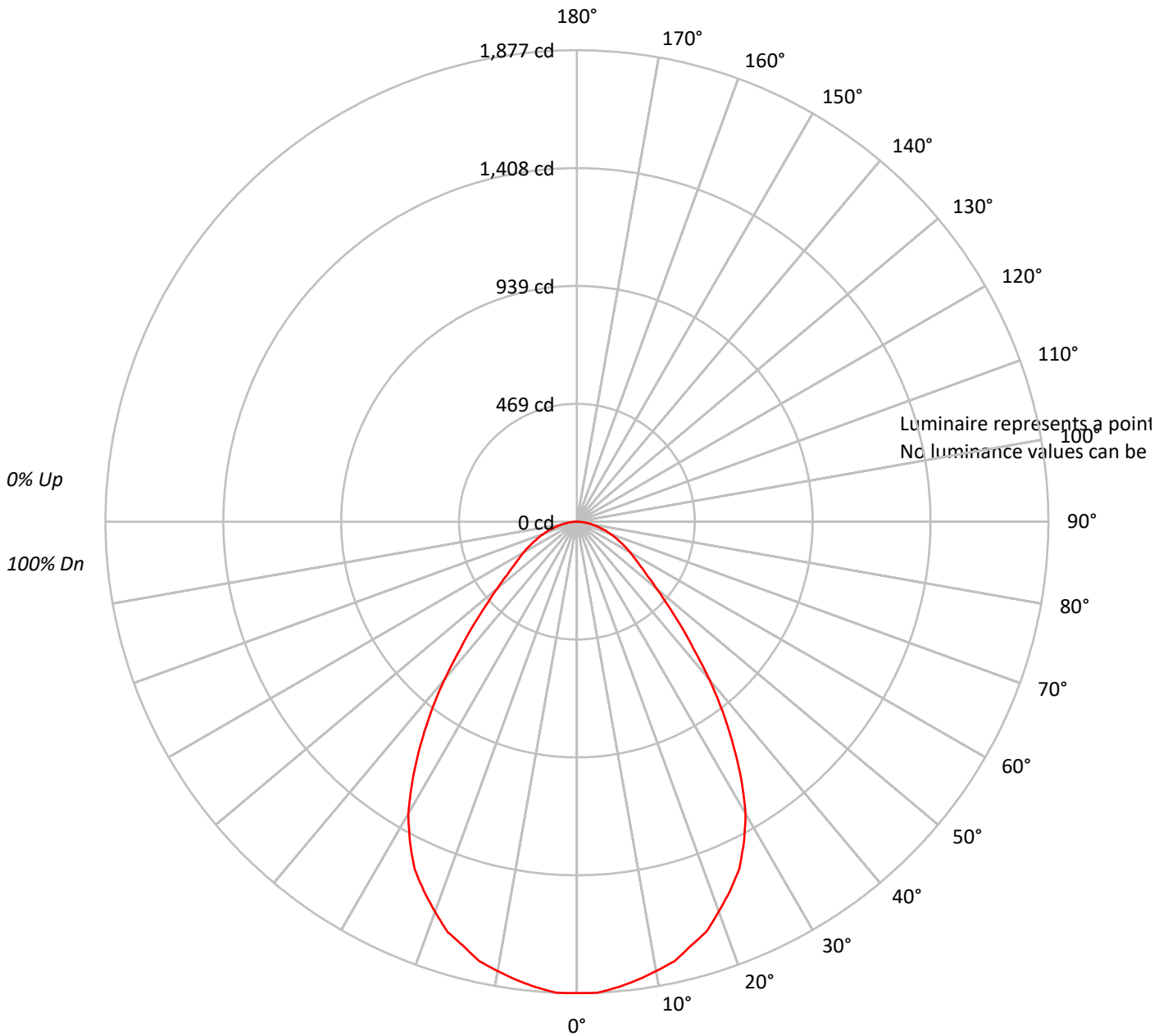
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207083

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P207083

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBWMW1

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	0															
RCR																																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																											
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																											
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																											
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																											
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61																											
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55																											
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50																											
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45																											
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41																											
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38																											
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35																											

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207083

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	5.7
10°-20°	492.9	15.9
20°-30°	696.5	22.5
30°-40°	674.7	21.8
40°-50°	455.3	14.7
50°-60°	282.6	9.1
60°-70°	188.8	6.1
70°-80°	103.3	3.3
80°-90°	27.3	0.9
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°	1365.6	44.1
0°-40°	2040.3	65.9
0°-60°	2778.1	89.7
0°-90°	3097.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1877	
5°	1861	176
15°	1748	493
25°	1527	697
35°	1085	675
45°	583	455
55°	310	283
65°	189	189
75°	96	103
85°	24	27
90°	0	



TEST NUMBER: P207083

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBMMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1877.1
2.5°	1877.1
5°	1861.0
7.5°	1840.9
10°	1816.8
12.5°	1792.7
15°	1748.5
17.5°	1712.3
20°	1652.0
22.5°	1591.7
25°	1527.4
27.5°	1439.0
30°	1342.5
32.5°	1217.9
35°	1085.2
37.5°	952.6
40°	820.0
42.5°	687.3
45°	582.8
47.5°	486.4
50°	414.0
52.5°	353.7
55°	309.5
57.5°	273.3
60°	245.2
62.5°	217.0
65°	188.9
67.5°	164.8
70°	140.7
72.5°	120.6
75°	96.5
77.5°	76.4
80°	56.3
82.5°	40.2
85°	24.1
87.5°	8.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)