

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: P206047

Luminaire Tested: **LD4B40D010 EU4B30509027 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206047
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 EU4B30509027 4LBSB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SPECULAR BLACK 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: 2898.3 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

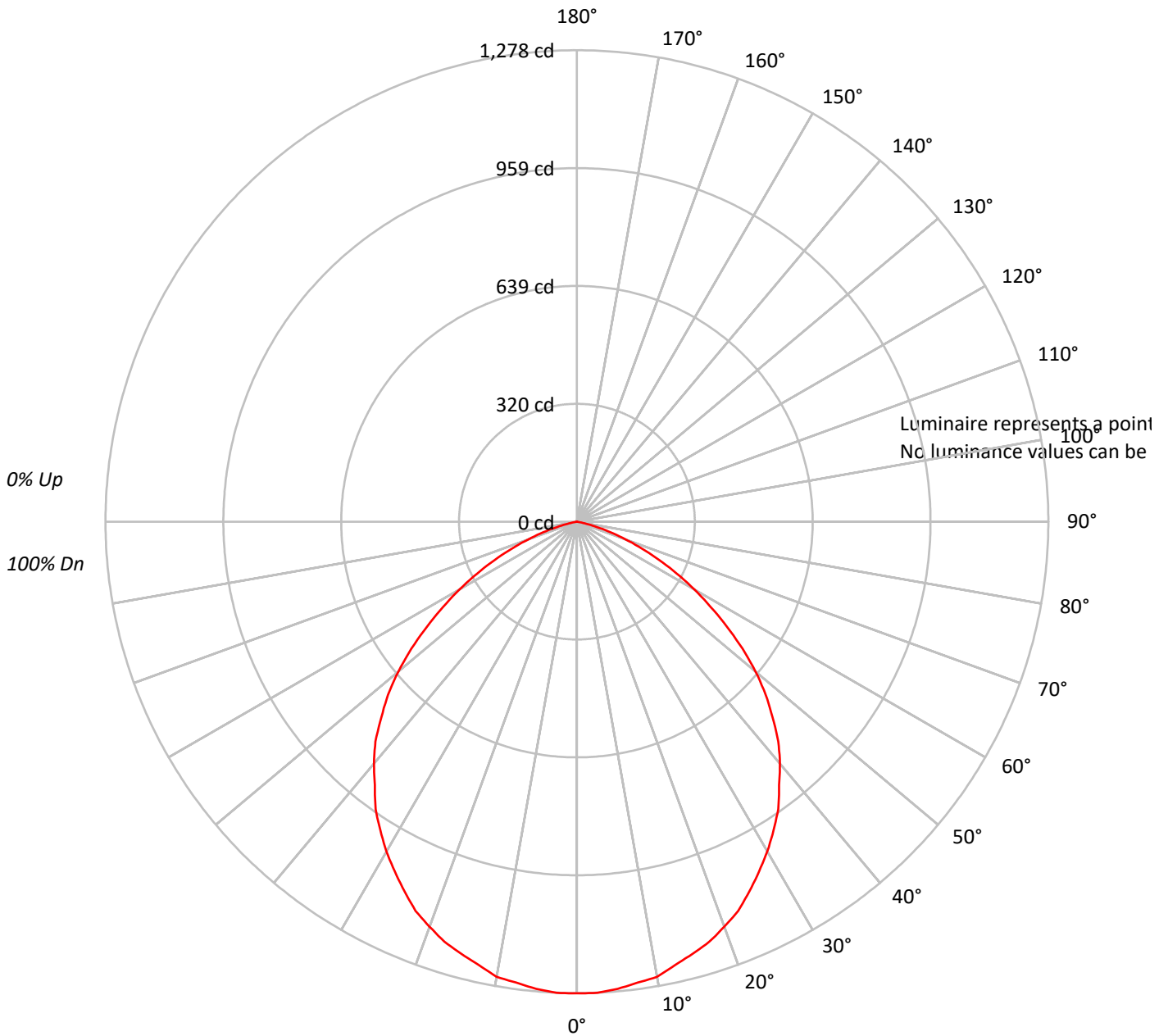
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206047

CATALOG NUMBER: LD4B40D010 EU4B30509027 4LBSB1

Luminous Intensity Polar Plot





TEST NUMBER: P206047

CATALOG NUMBER: LD4B40D010 EU4B30509027 4LBSB1

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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88																			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76																			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65																			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206047

CATALOG NUMBER: LD4B40D010 EU4B30509027 4LBSB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	4.2
10°-20°	342.4	11.8
20°-30°	509.3	17.6
30°-40°	592.7	20.4
40°-50°	577.7	19.9
50°-60°	444.3	15.3
60°-70°	245.6	8.5
70°-80°	65.0	2.2
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°	972.4	33.6
0°-40°	1565.1	54.0
0°-60°	2587.1	89.3
0°-90°	2898.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1278	
5°	1271	121
15°	1212	342
25°	1106	509
35°	952	593
45°	750	578
55°	496	444
65°	246	246
75°	55	65
85°	0	1
90°	0	



TEST NUMBER: P206047

CATALOG NUMBER: LD4B40D010 EU4B30509027 4LBSB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1278.5
2.5°	1278.5
5°	1271.2
7.5°	1260.2
10°	1252.8
12.5°	1230.8
15°	1212.4
17.5°	1194.0
20°	1168.3
22.5°	1142.6
25°	1105.9
27.5°	1069.1
30°	1032.4
32.5°	992.0
35°	951.6
37.5°	900.1
40°	856.0
42.5°	808.3
45°	749.5
47.5°	694.4
50°	631.9
52.5°	565.8
55°	496.0
57.5°	429.9
60°	367.4
62.5°	304.9
65°	246.2
67.5°	191.0
70°	139.6
72.5°	95.5
75°	55.1
77.5°	25.7
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)