

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: P206464

Luminaire Tested: **LD4B40D010 EU4B30509040 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206464
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 4LBCSMB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 3465.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

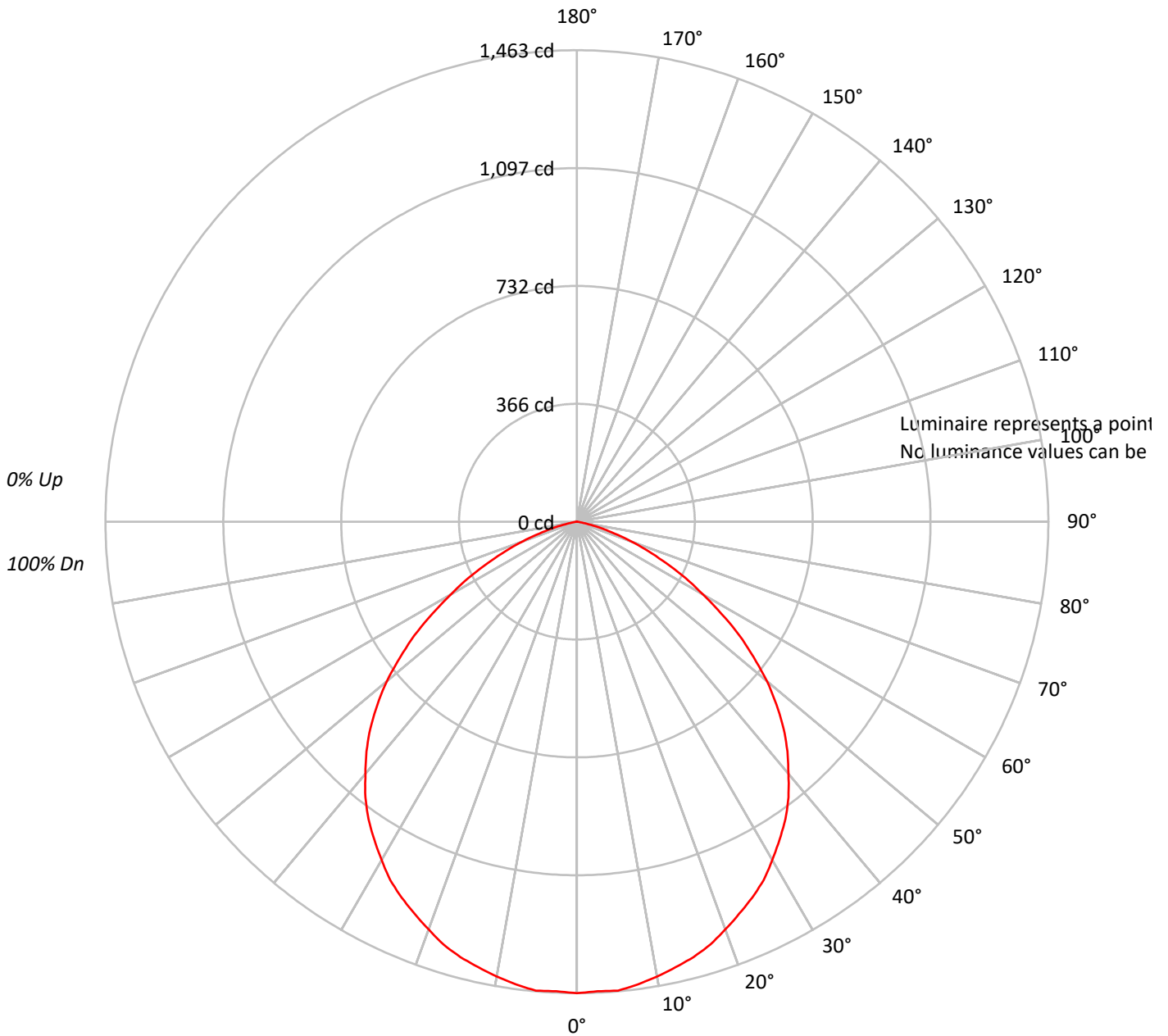
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206464

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBCSMB1

Luminous Intensity Polar Plot





TEST NUMBER: P206464

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBCSMB1

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	104	101	98	100	98	95	96	94	92	93	91	90	88																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39																			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																			
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																			
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206464

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBCSMB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	4.0
10°-20°	394.3	11.4
20°-30°	592.8	17.1
30°-40°	703.3	20.3
40°-50°	696.0	20.1
50°-60°	546.7	15.8
60°-70°	306.5	8.8
70°-80°	86.1	2.5
80°-90°	1.3	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°	1125.5	32.5
0°-40°	1828.8	52.8
0°-60°	3071.6	88.6
0°-90°	3465.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1463	
5°	1461	138
15°	1399	394
25°	1287	593
35°	1128	703
45°	907	696
55°	616	547
65°	306	307
75°	74	86
85°	0	1
90°	0	



TEST NUMBER: P206464

CATALOG NUMBER: LD4B40D010 EU4B30509040 4LBCSMB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1463.3
2.5°	1458.4
5°	1460.9
7.5°	1448.4
10°	1433.5
12.5°	1416.1
15°	1398.7
17.5°	1376.4
20°	1346.6
22.5°	1316.8
25°	1286.9
27.5°	1254.6
30°	1212.4
32.5°	1170.2
35°	1127.9
37.5°	1078.3
40°	1021.1
42.5°	966.5
45°	906.8
47.5°	839.7
50°	770.2
52.5°	690.7
55°	616.1
57.5°	531.7
60°	452.2
62.5°	380.1
65°	305.6
67.5°	241.0
70°	178.9
72.5°	121.7
75°	74.5
77.5°	37.3
80°	9.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)