

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840023

Luminaire Tested: **LDS4C40D010 EU4409035 4LBSLI**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C40D010 EU4409035 4LBSLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

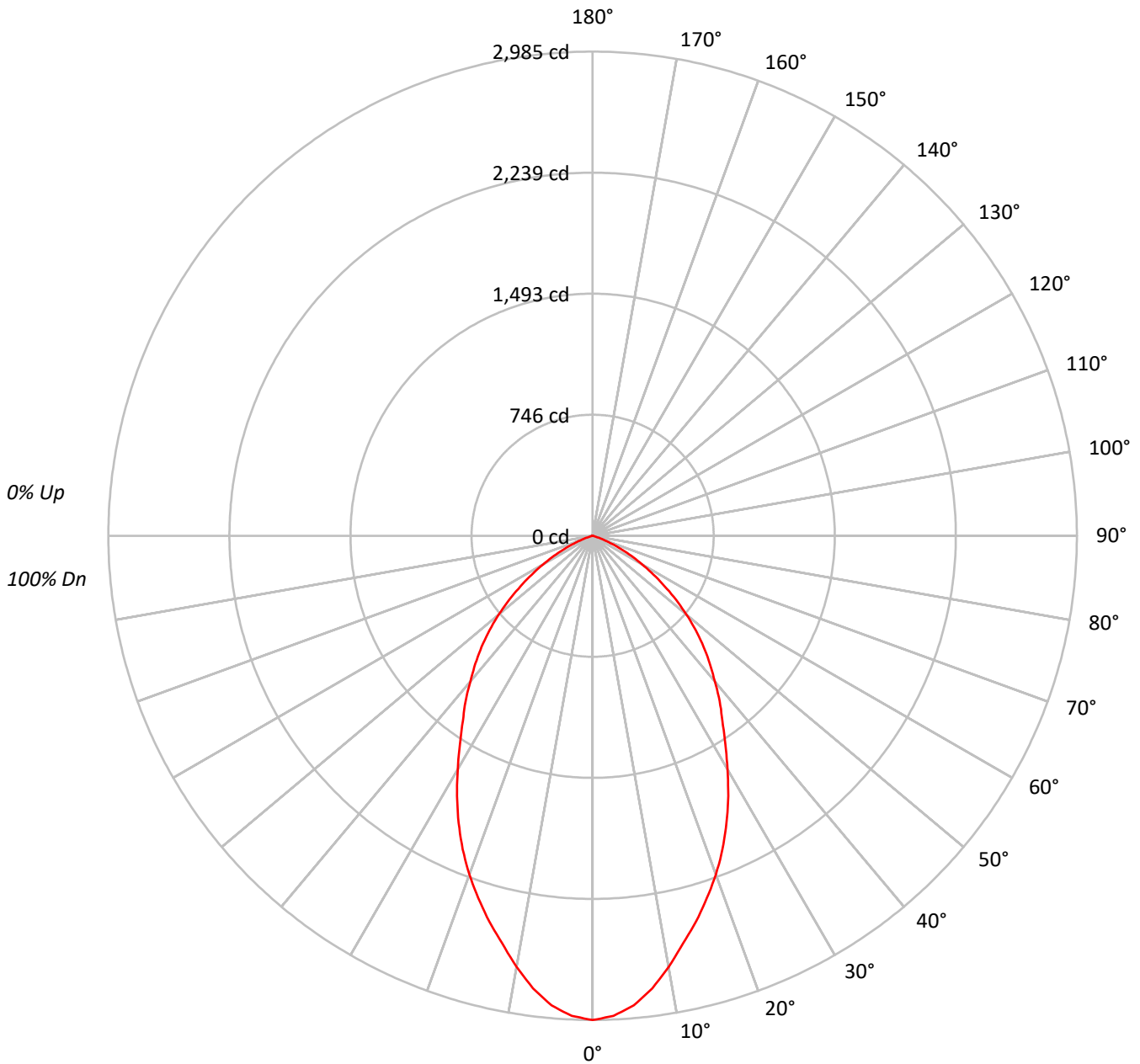
Lumens per Lamp: N/A
Luminaire Lumens: 4181.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
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: P840023

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSLI

Luminous Intensity Polar Plot





TEST NUMBER: P840023

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSLI

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51																			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	366767
5°	358462
10°	336622
15°	313173
20°	290460
25°	264777
30°	235727
35°	208932
40°	187798
45°	168077
50°	144186
55°	115983
60°	86415
65°	55174
70°	26581
75°	4414
80°	3254
85°	0



TEST NUMBER: P840023

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	6.5
10°-20°	690.4	16.5
20°-30°	894.6	21.4
30°-40°	876.6	21.0
40°-50°	743.0	17.8
50°-60°	487.0	11.6
60°-70°	195.8	4.7
70°-80°	22.4	0.5
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°	1855.7	44.4
0°-40°	2732.2	65.3
0°-60°	3962.2	94.8
0°-90°	4181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2985	
5°	2907	271
15°	2462	690
25°	1953	895
35°	1393	877
45°	967	743
55°	542	487
65°	190	196
75°	9	22
85°	0	1
90°	0	



TEST NUMBER: P840023

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSLI

CANDELA DISTRIBUTION (FULL):

	0°
0°	2985.4
2.5°	2962.2
5°	2906.7
7.5°	2814.1
10°	2698.4
12.5°	2573.4
15°	2462.3
17.5°	2342.1
20°	2221.7
22.5°	2092.1
25°	1953.3
27.5°	1809.7
30°	1661.7
32.5°	1522.8
35°	1393.1
37.5°	1286.8
40°	1171.0
42.5°	1069.2
45°	967.4
47.5°	860.9
50°	754.4
52.5°	648.0
55°	541.5
57.5°	444.3
60°	351.7
62.5°	268.4
65°	189.8
67.5°	125.0
70°	74.0
72.5°	32.4
75°	9.3
77.5°	4.6
80°	4.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)