

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: P840004

Luminaire Tested: **LDS4C40D010 EU4409027 4LBSWH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C40D010 EU4409027 4LBSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

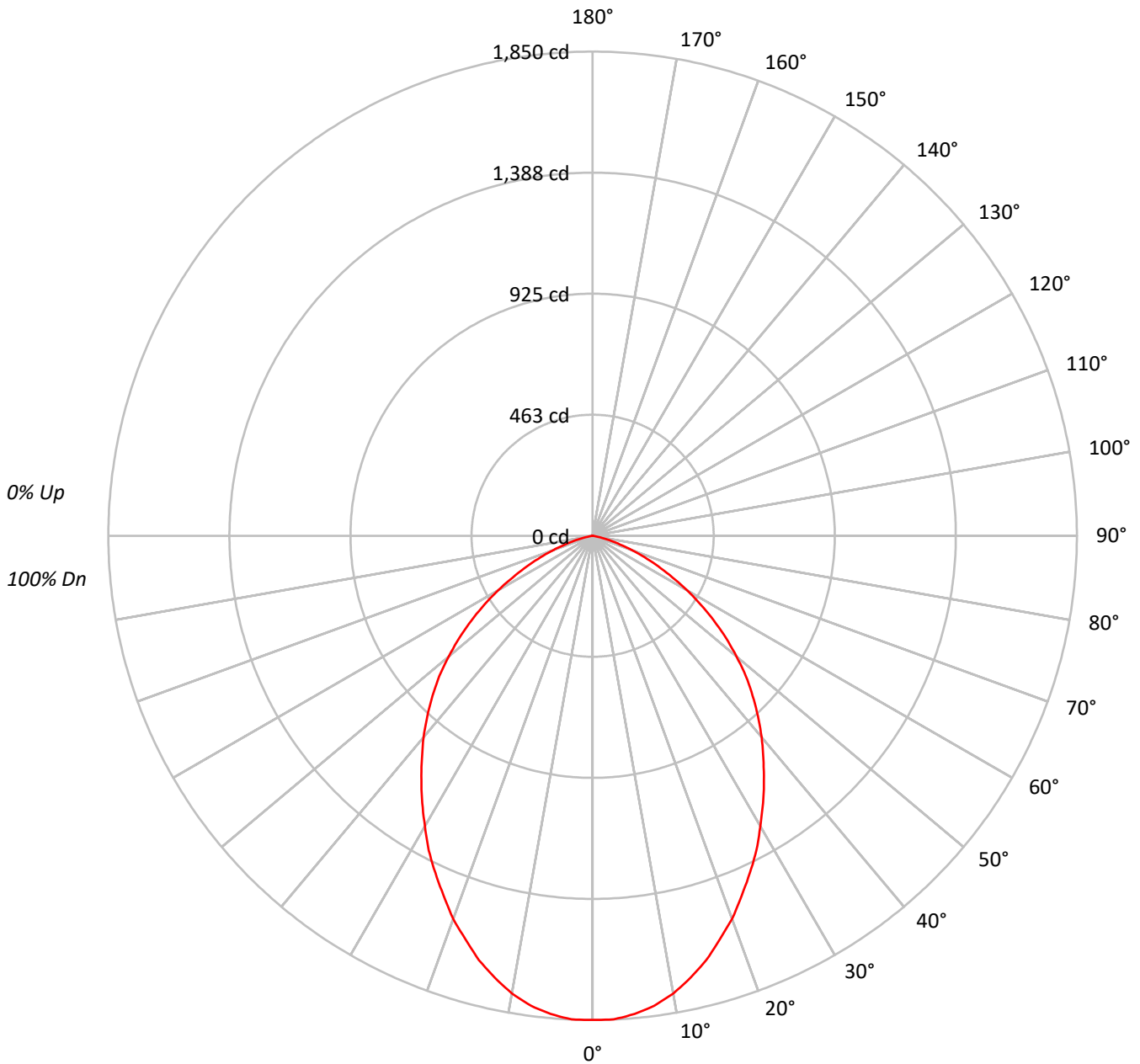
Lumens per Lamp: N/A
Luminaire Lumens: 3537.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840004

CATALOG NUMBER: LDS4C40D010 EU4409027 4LBSWH

Luminous Intensity Polar Plot





TEST NUMBER: P840004

CATALOG NUMBER: LDS4C40D010 EU4409027 4LBSWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			51
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	227254
5°	226211
10°	221541
15°	213484
20°	203650
25°	192676
30°	181750
35°	171123
40°	161128
45°	150199
50°	136961
55°	120952
60°	102386
65°	80377
70°	57364
75°	31423
80°	5518
85°	0



TEST NUMBER: P840004

CATALOG NUMBER: LDS4C40D010 EU4409027 4LBSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	4.9
10°-20°	471.0	13.3
20°-30°	654.0	18.5
30°-40°	713.7	20.2
40°-50°	665.8	18.8
50°-60°	505.4	14.3
60°-70°	276.7	7.8
70°-80°	76.1	2.2
80°-90°	1.1	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°	1298.3	36.7
0°-40°	2012.0	56.9
0°-60°	3183.1	90.0
0°-90°	3537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1850	
5°	1834	173
15°	1678	471
25°	1421	654
35°	1141	714
45°	864	666
55°	565	505
65°	276	277
75°	66	76
85°	0	1
90°	0	



TEST NUMBER: P840004

CATALOG NUMBER: LDS4C40D010 EU4409027 4LBSWH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1849.8
2.5°	1849.8
5°	1834.3
7.5°	1811.0
10°	1775.9
12.5°	1729.2
15°	1678.5
17.5°	1616.2
20°	1557.7
22.5°	1487.7
25°	1421.4
27.5°	1355.3
30°	1281.2
32.5°	1211.1
35°	1141.0
37.5°	1071.0
40°	1004.7
42.5°	934.6
45°	864.5
47.5°	794.4
50°	716.6
52.5°	642.6
55°	564.7
57.5°	490.7
60°	416.7
62.5°	342.7
65°	276.5
67.5°	214.2
70°	159.7
72.5°	109.1
75°	66.2
77.5°	31.1
80°	7.8
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)