

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: P840020

Luminaire Tested: **LDS4C40D010 EU4409035 4LBSB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P840020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C40D010 EU4409035 4LBSB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

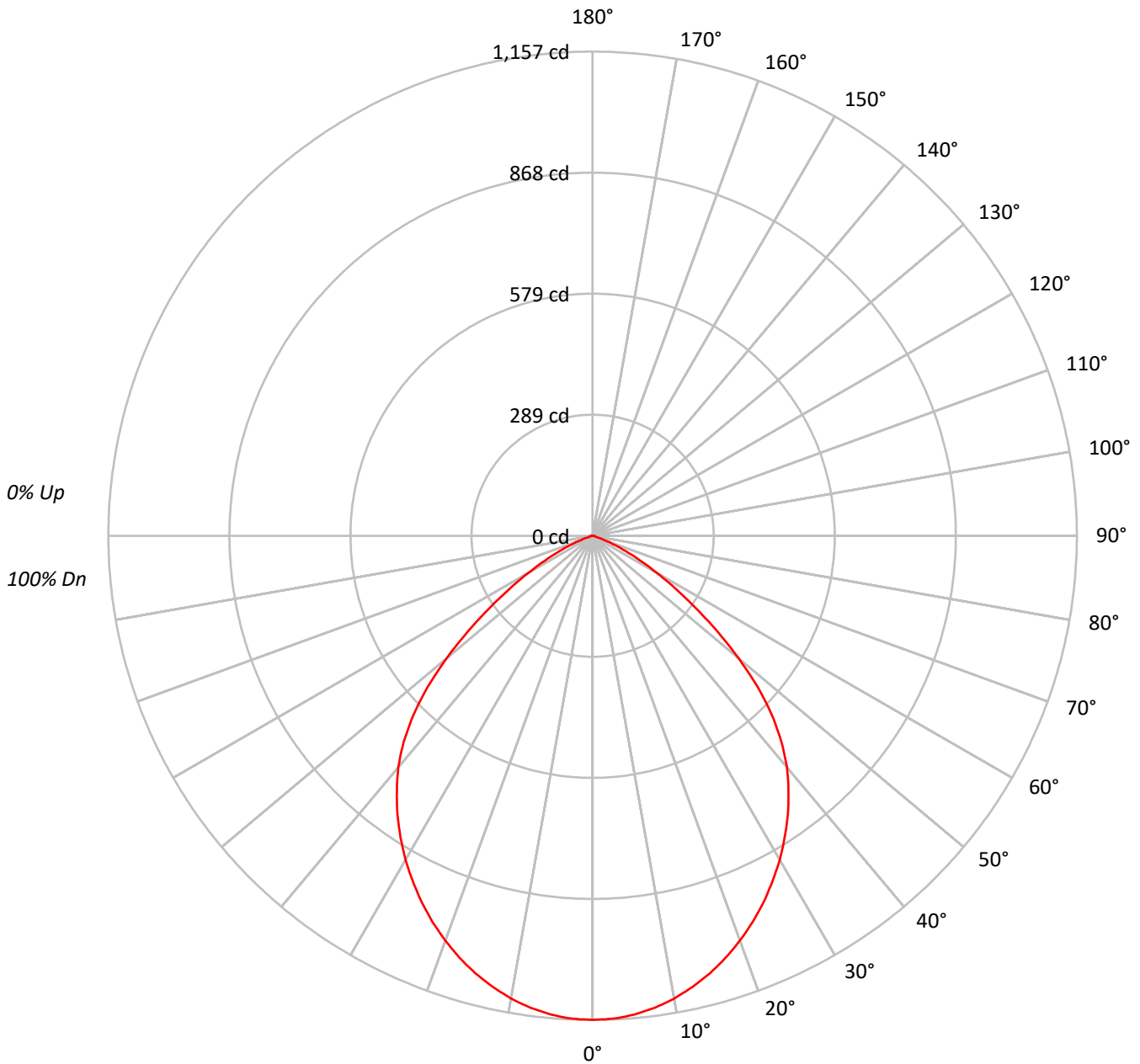
Lumens per Lamp: N/A
Luminaire Lumens: 2203.1 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840020

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSB

Luminous Intensity Polar Plot





TEST NUMBER: P840020

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142117
5°	141624
10°	140068
15°	137655
20°	134582
25°	130972
30°	126850
35°	121961
40°	115822
45°	105304
50°	86924
55°	64021
60°	43441
65°	25436
70°	10058
75°	2278
80°	2971
85°	5075



TEST NUMBER: P840020

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	4.9
10°-20°	304.8	13.8
20°-30°	444.5	20.2
30°-40°	507.4	23.0
40°-50°	461.3	20.9
50°-60°	272.1	12.4
60°-70°	91.2	4.1
70°-80°	9.6	0.4
80°-90°	3.4	0.2
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°	858.1	39.0
0°-40°	1365.5	62.0
0°-60°	2098.9	95.3
0°-90°	2203.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2203.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1157	
5°	1148	109
15°	1082	305
25°	966	445
35°	813	507
45°	606	461
55°	299	272
65°	88	91
75°	5	10
85°	4	3
90°	0	



TEST NUMBER: P840020

CATALOG NUMBER: LDS4C40D010 EU4409035 4LBSB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1156.8
2.5°	1155.0
5°	1148.4
7.5°	1137.7
10°	1122.8
12.5°	1103.8
15°	1082.3
17.5°	1057.3
20°	1029.4
22.5°	999.0
25°	966.2
27.5°	930.5
30°	894.2
32.5°	854.3
35°	813.2
37.5°	768.6
40°	722.2
42.5°	668.0
45°	606.1
47.5°	534.6
50°	454.8
52.5°	375.1
55°	298.9
57.5°	234.0
60°	176.8
62.5°	128.0
65°	87.5
67.5°	53.6
70°	28.0
72.5°	10.7
75°	4.8
77.5°	4.8
80°	4.2
82.5°	3.6
85°	3.6
87.5°	3.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)