

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: P840010

Luminaire Tested: **LDS4C40D010 EU4409030 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840010
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 EU4409030 4LBSB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

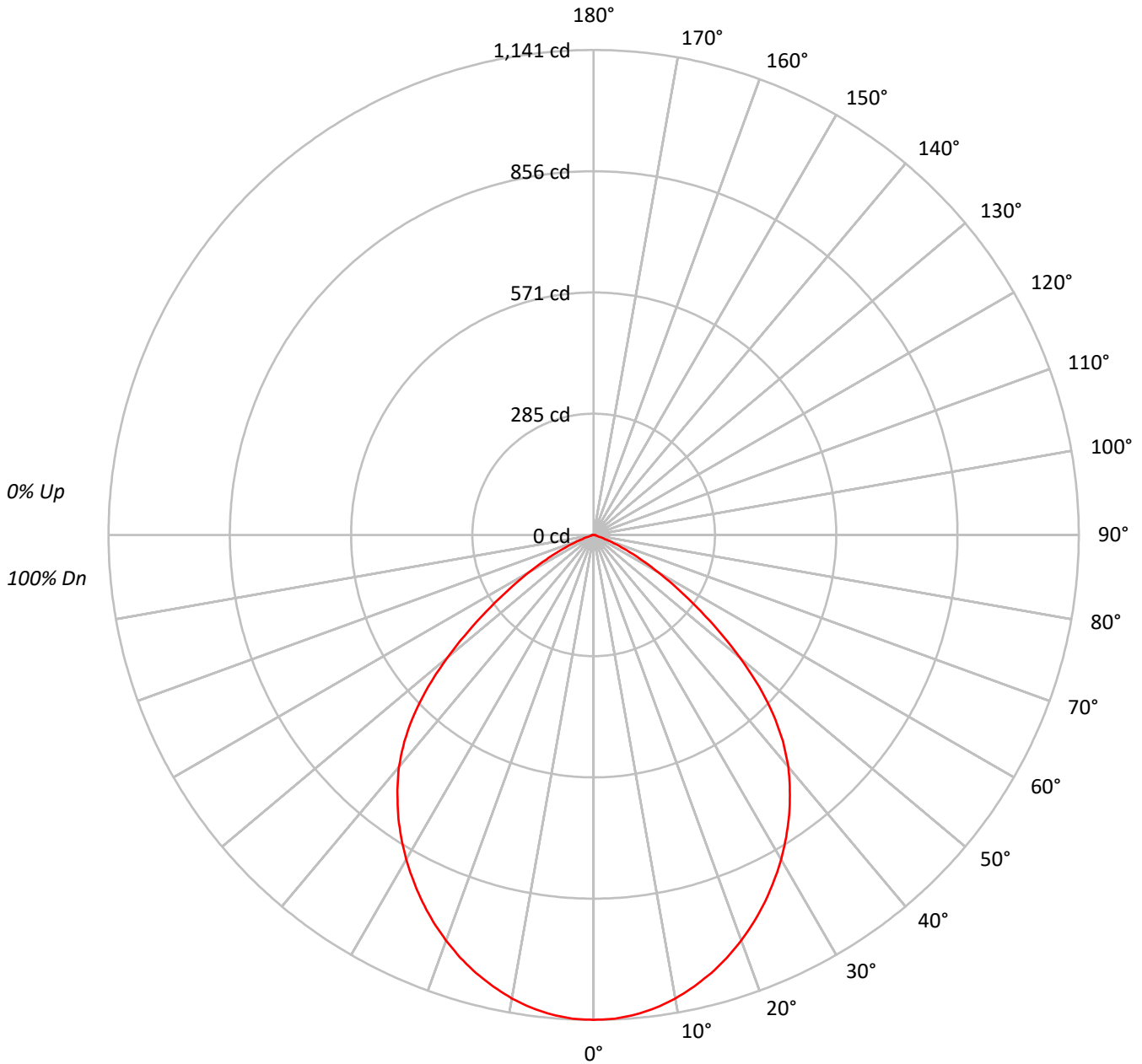
Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840010

CATALOG NUMBER: LDS4C40D010 EU4409030 4LBSB

Luminous Intensity Polar Plot





TEST NUMBER: P840010

CATALOG NUMBER: LDS4C40D010 EU4409030 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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140176
5°	139700
10°	138159
15°	135785
20°	132738
25°	129196
30°	125120
35°	120311
40°	114234
45°	103862
50°	85739
55°	63143
60°	42851
65°	25087
70°	9914
75°	2231
80°	2901
85°	4934



TEST NUMBER: P840010

CATALOG NUMBER: LDS4C40D010 EU4409030 4LBSB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	4.9
10°-20°	300.6	13.8
20°-30°	438.5	20.2
30°-40°	500.5	23.0
40°-50°	455.0	20.9
50°-60°	268.4	12.4
60°-70°	90.0	4.1
70°-80°	9.4	0.4
80°-90°	3.3	0.1
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°	846.4	39.0
0°-40°	1346.9	62.0
0°-60°	2070.3	95.3
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1141	
5°	1133	107
15°	1068	301
25°	953	438
35°	802	501
45°	598	455
55°	295	268
65°	86	90
75°	5	9
85°	4	3
90°	0	



TEST NUMBER: P840010

CATALOG NUMBER: LDS4C40D010 EU4409030 4LBSB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1141.0
2.5°	1139.2
5°	1132.8
7.5°	1122.2
10°	1107.5
12.5°	1088.7
15°	1067.6
17.5°	1042.9
20°	1015.3
22.5°	985.4
25°	953.1
27.5°	917.9
30°	882.0
32.5°	842.7
35°	802.2
37.5°	758.1
40°	712.3
42.5°	658.9
45°	597.8
47.5°	527.3
50°	448.6
52.5°	370.0
55°	294.8
57.5°	230.8
60°	174.4
62.5°	126.3
65°	86.3
67.5°	52.9
70°	27.6
72.5°	10.6
75°	4.7
77.5°	4.7
80°	4.1
82.5°	3.5
85°	3.5
87.5°	2.9
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)