

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: P840041

Luminaire Tested: **LDS4C40D010 EU4409050 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840041
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 EU4409050 4LBSGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

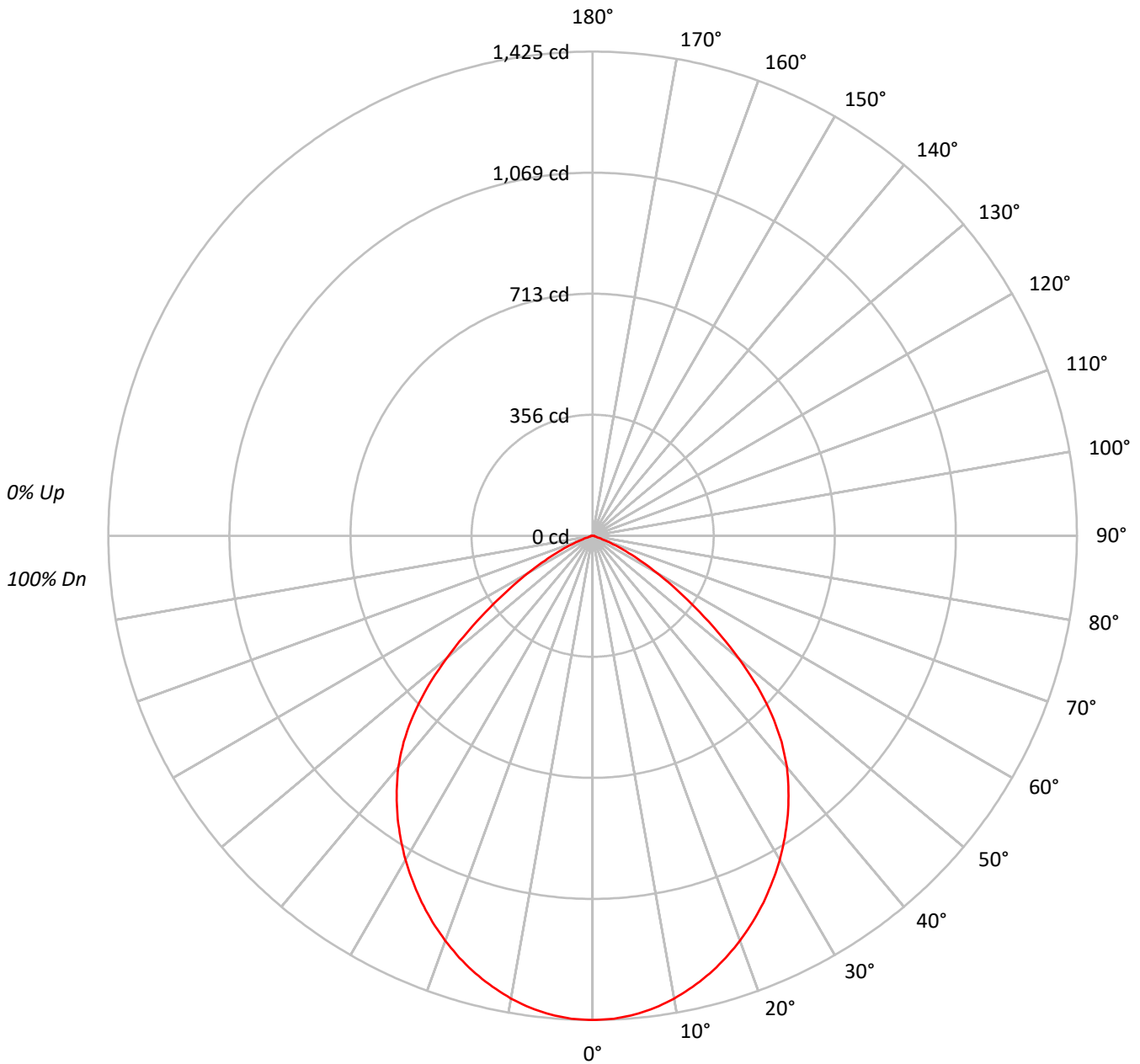
Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P840041

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBSGPH

Luminous Intensity Polar Plot





TEST NUMBER: P840041

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBSGPH

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°	175078
5°	174477
10°	172565
15°	169592
20°	165789
25°	161363
30°	156272
35°	150261
40°	142685
45°	129715
50°	107088
55°	78864
60°	53515
65°	31337
70°	12392
75°	2801
80°	3608
85°	6202



TEST NUMBER: P840041

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBSGPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	4.9
10°-20°	375.5	13.8
20°-30°	547.7	20.2
30°-40°	625.1	23.0
40°-50°	568.3	20.9
50°-60°	335.2	12.3
60°-70°	112.4	4.1
70°-80°	11.8	0.4
80°-90°	4.1	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°	1057.2	39.0
0°-40°	1682.3	62.0
0°-60°	2585.7	95.3
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1425	
5°	1415	134
15°	1333	375
25°	1190	548
35°	1002	625
45°	747	568
55°	368	335
65°	108	112
75°	6	12
85°	4	4
90°	0	



TEST NUMBER: P840041

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBSGPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	1425.1
2.5°	1422.9
5°	1414.8
7.5°	1401.6
10°	1383.3
12.5°	1359.8
15°	1333.4
17.5°	1302.6
20°	1268.1
22.5°	1230.7
25°	1190.4
27.5°	1146.4
30°	1101.6
32.5°	1052.5
35°	1001.9
37.5°	946.9
40°	889.7
42.5°	822.9
45°	746.6
47.5°	658.6
50°	560.3
52.5°	462.1
55°	368.2
57.5°	288.2
60°	217.8
62.5°	157.7
65°	107.8
67.5°	66.0
70°	34.5
72.5°	13.2
75°	5.9
77.5°	5.9
80°	5.1
82.5°	4.4
85°	4.4
87.5°	3.7
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)