

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: P840036

Luminaire Tested: **LDS4C40D010 EU4409050 4LBCSMB**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840036  
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 4LBCSMB  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

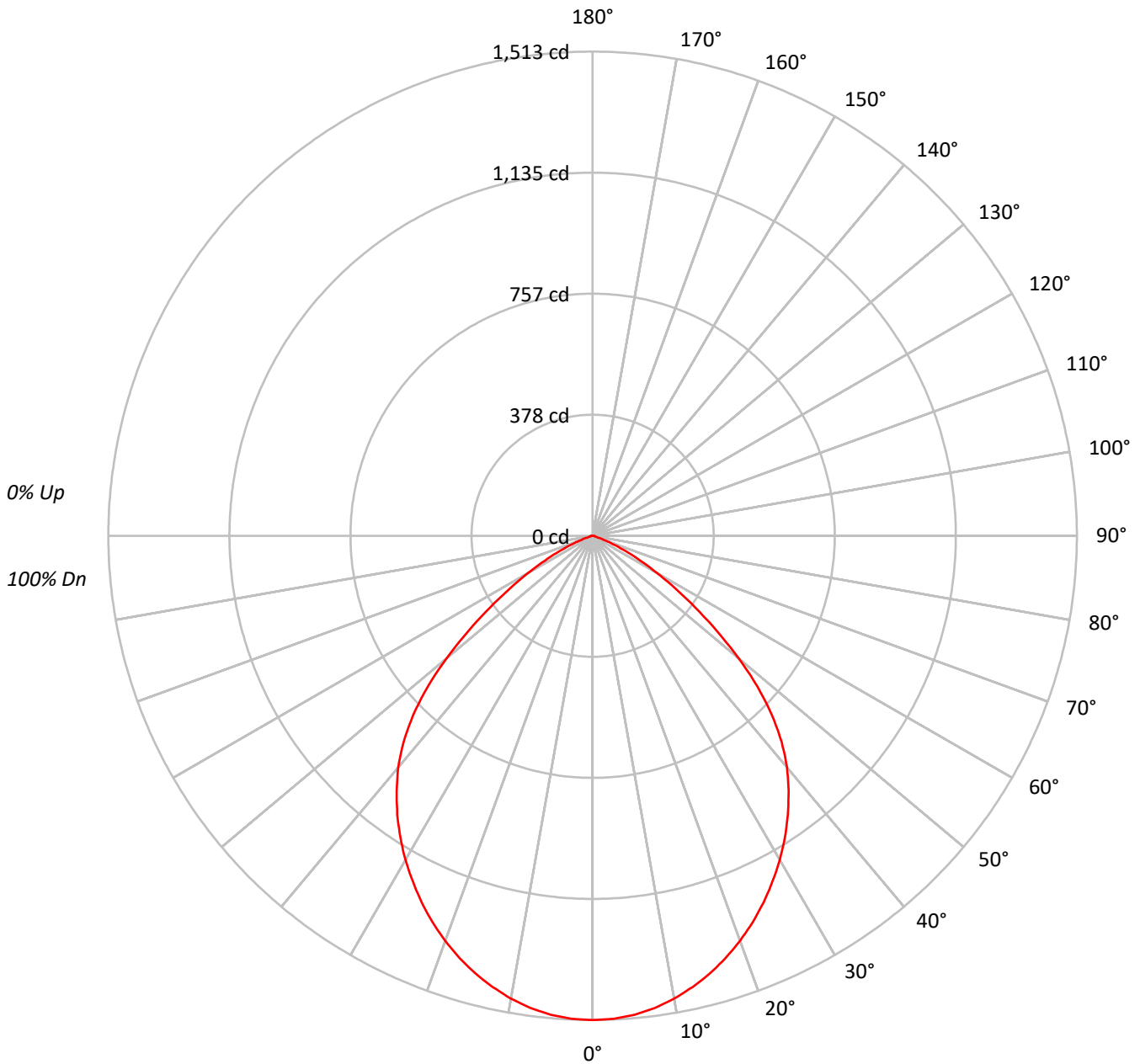
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2882.0 lumens  
Efficiency: N/A  
Efficacy: 61.3 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<sub>in</sub>): 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: P840036

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBCSMB

### Luminous Intensity Polar Plot





TEST NUMBER: P840036

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBCSMB

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	185914
5°	185280
10°	183243
15°	180084
20°	176052
25°	171354
30°	165947
35°	159560
40°	151505
45°	137759
50°	113720
55°	83748
60°	56832
65°	33285
70°	13147
75°	2943
80°	3891
85°	6625



TEST NUMBER: P840036

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBCSMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	4.9
10°-20°	398.7	13.8
20°-30°	581.6	20.2
30°-40°	663.8	23.0
40°-50°	603.5	20.9
50°-60°	355.9	12.4
60°-70°	119.4	4.1
70°-80°	12.4	0.4
80°-90°	4.4	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°	1122.6	39.0
0°-40°	1786.4	62.0
0°-60°	2745.8	95.3
0°-90°	2882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1513	
5°	1502	142
15°	1416	399
25°	1264	582
35°	1064	664
45°	793	603
55°	391	356
65°	114	119
75°	6	12
85°	5	4
90°	0	



TEST NUMBER: P840036

CATALOG NUMBER: LDS4C40D010 EU4409050 4LBCSMB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1513.3
2.5°	1510.9
5°	1502.4
7.5°	1488.4
10°	1468.9
12.5°	1444.0
15°	1415.9
17.5°	1383.2
20°	1346.6
22.5°	1306.9
25°	1264.1
27.5°	1217.3
30°	1169.8
32.5°	1117.6
35°	1063.9
37.5°	1005.5
40°	944.7
42.5°	873.9
45°	792.9
47.5°	699.4
50°	595.0
52.5°	490.7
55°	391.0
57.5°	306.1
60°	231.3
62.5°	167.5
65°	114.5
67.5°	70.1
70°	36.6
72.5°	14.0
75°	6.2
77.5°	6.2
80°	5.5
82.5°	4.7
85°	4.7
87.5°	3.9
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)