

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: P840037

Luminaire Tested: **LDS4C40D010 EU4409050 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840037  
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 4LBCSMMS  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

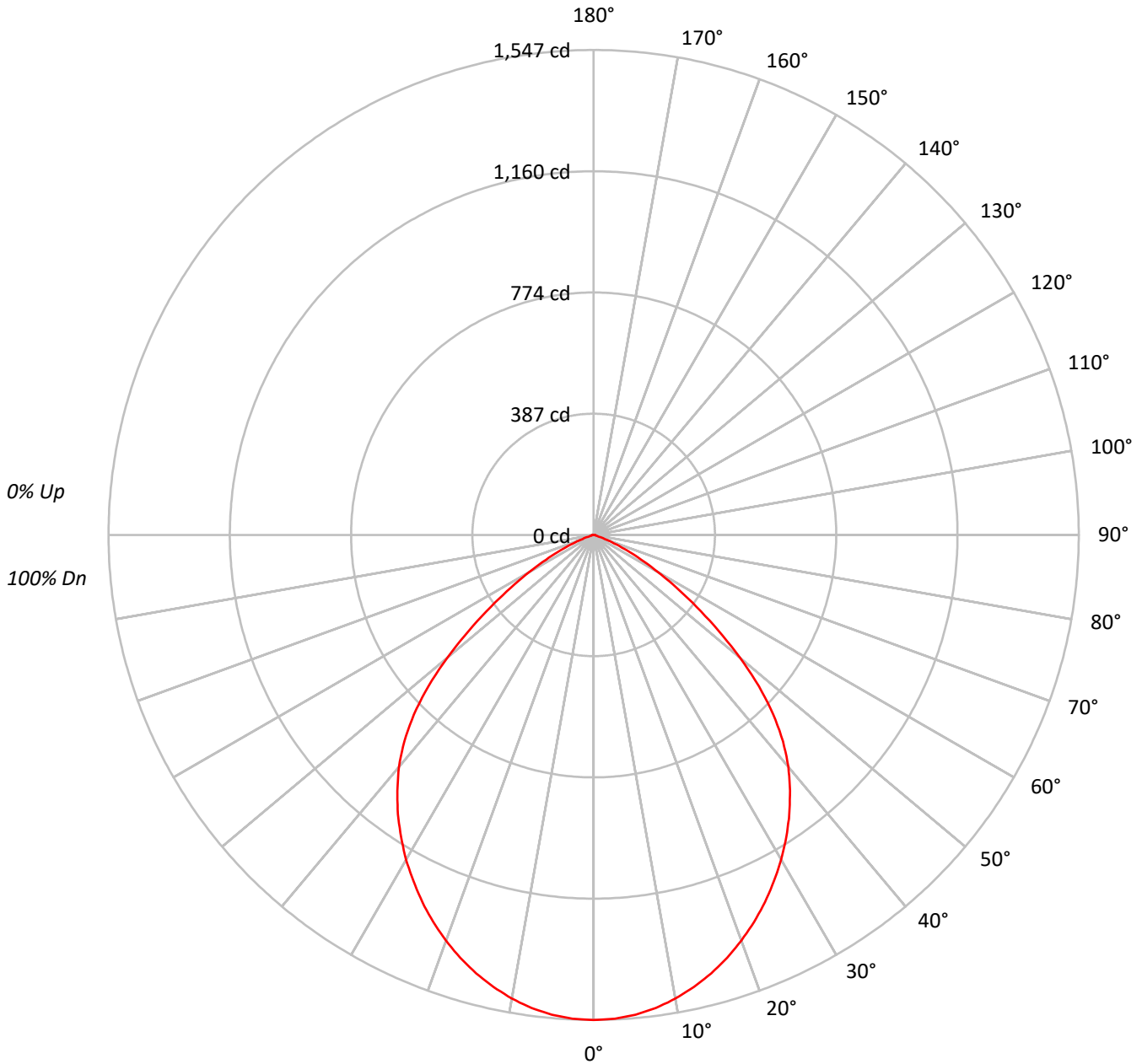
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2947.0 lumens  
Efficiency: N/A  
Efficacy: 62.7 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<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

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### Luminous Intensity Polar Plot





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**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°	190103
5°	189461
10°	187373
15°	184154
20°	180026
25°	175217
30°	169692
35°	163159
40°	154921
45°	140852
50°	116300
55°	85633
60°	58110
65°	34041
70°	13434
75°	3038
80°	3962
85°	6766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	4.9
10°-20°	407.7	13.8
20°-30°	594.7	20.2
30°-40°	678.8	23.0
40°-50°	617.1	20.9
50°-60°	364.0	12.3
60°-70°	122.1	4.1
70°-80°	12.8	0.4
80°-90°	4.5	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°	1147.9	39.0
0°-40°	1826.7	62.0
0°-60°	2807.8	95.3
0°-90°	2947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1547	
5°	1536	146
15°	1448	408
25°	1293	595
35°	1088	679
45°	811	617
55°	400	364
65°	117	122
75°	6	13
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1547.4
2.5°	1545.0
5°	1536.3
7.5°	1521.9
10°	1502.0
12.5°	1476.5
15°	1447.9
17.5°	1414.4
20°	1377.0
22.5°	1336.4
25°	1292.6
27.5°	1244.8
30°	1196.2
32.5°	1142.8
35°	1087.9
37.5°	1028.2
40°	966.0
42.5°	893.6
45°	810.7
47.5°	715.2
50°	608.5
52.5°	501.7
55°	399.8
57.5°	313.0
60°	236.5
62.5°	171.2
65°	117.1
67.5°	71.7
70°	37.4
72.5°	14.3
75°	6.4
77.5°	6.4
80°	5.6
82.5°	4.8
85°	4.8
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)