

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: P840027

Luminaire Tested: **LDS4C40D010 EU4409040 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840027  
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 EU4409040 4LBCSMMS  
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

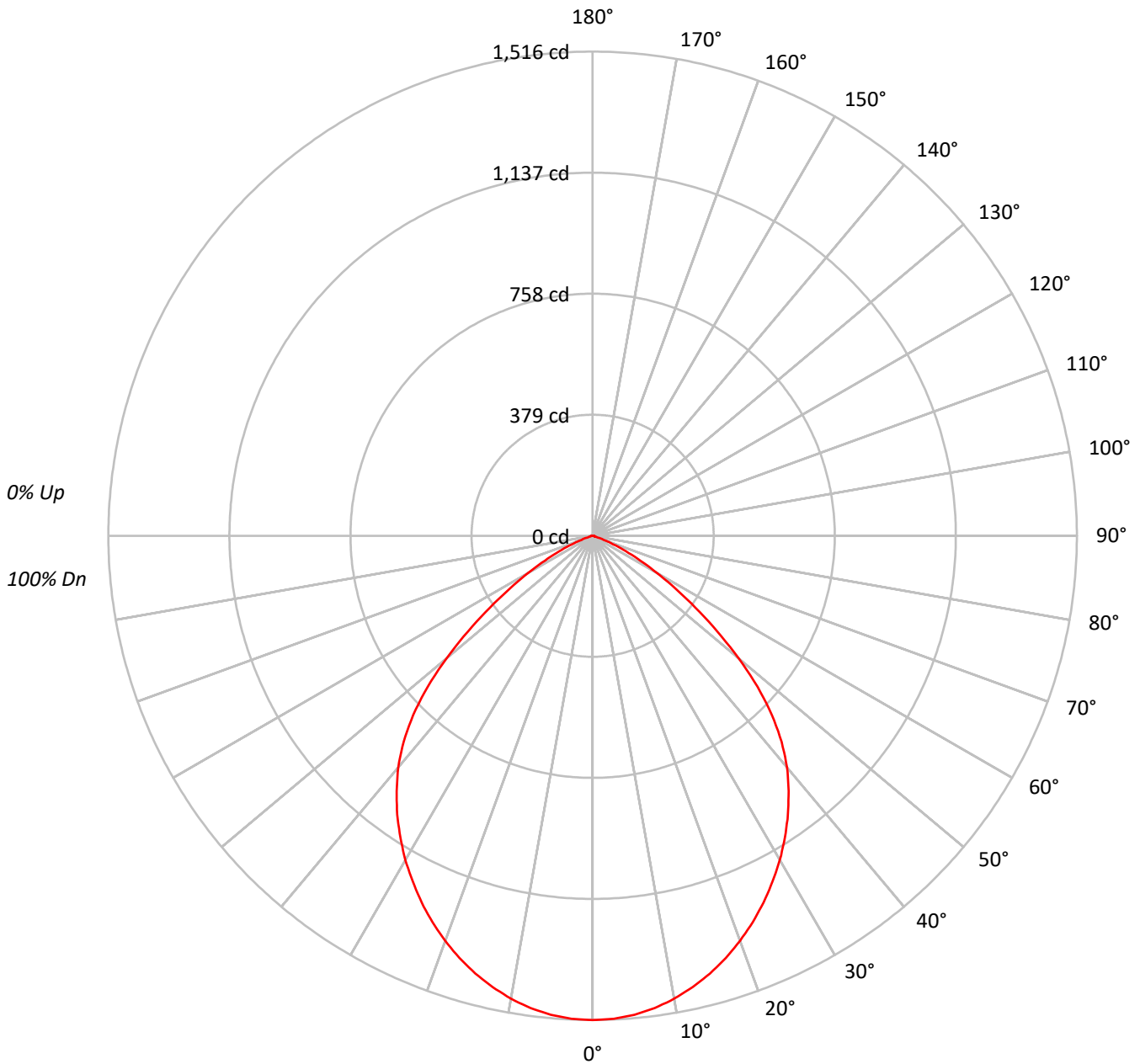
Lumens per Lamp: N/A  
Luminaire Lumens: 2888.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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°	186295
5°	185662
10°	183618
15°	180466
20°	176418
25°	171706
30°	166301
35°	159890
40°	151826
45°	138037
50°	113968
55°	83919
60°	56955
65°	33343
70°	13183
75°	2943
80°	3891
85°	6625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	4.9
10°-20°	399.5	13.8
20°-30°	582.8	20.2
30°-40°	665.2	23.0
40°-50°	604.7	20.9
50°-60°	356.7	12.4
60°-70°	119.6	4.1
70°-80°	12.5	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°	1124.9	39.0
0°-40°	1790.2	62.0
0°-60°	2751.6	95.3
0°-90°	2888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1516	
5°	1506	143
15°	1419	400
25°	1267	583
35°	1066	665
45°	794	605
55°	392	357
65°	115	120
75°	6	12
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1516.4
2.5°	1514.1
5°	1505.5
7.5°	1491.5
10°	1471.9
12.5°	1447.0
15°	1418.9
17.5°	1386.1
20°	1349.4
22.5°	1309.6
25°	1266.7
27.5°	1219.9
30°	1172.3
32.5°	1120.0
35°	1066.1
37.5°	1007.6
40°	946.7
42.5°	875.7
45°	794.5
47.5°	700.9
50°	596.3
52.5°	491.7
55°	391.8
57.5°	306.7
60°	231.8
62.5°	167.8
65°	114.7
67.5°	70.2
70°	36.7
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)