

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: P840067

Luminaire Tested: **LDS4C45D010 EU4459035 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840067  
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: LDS4C45D010 EU4459035 4LBCSMMS  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

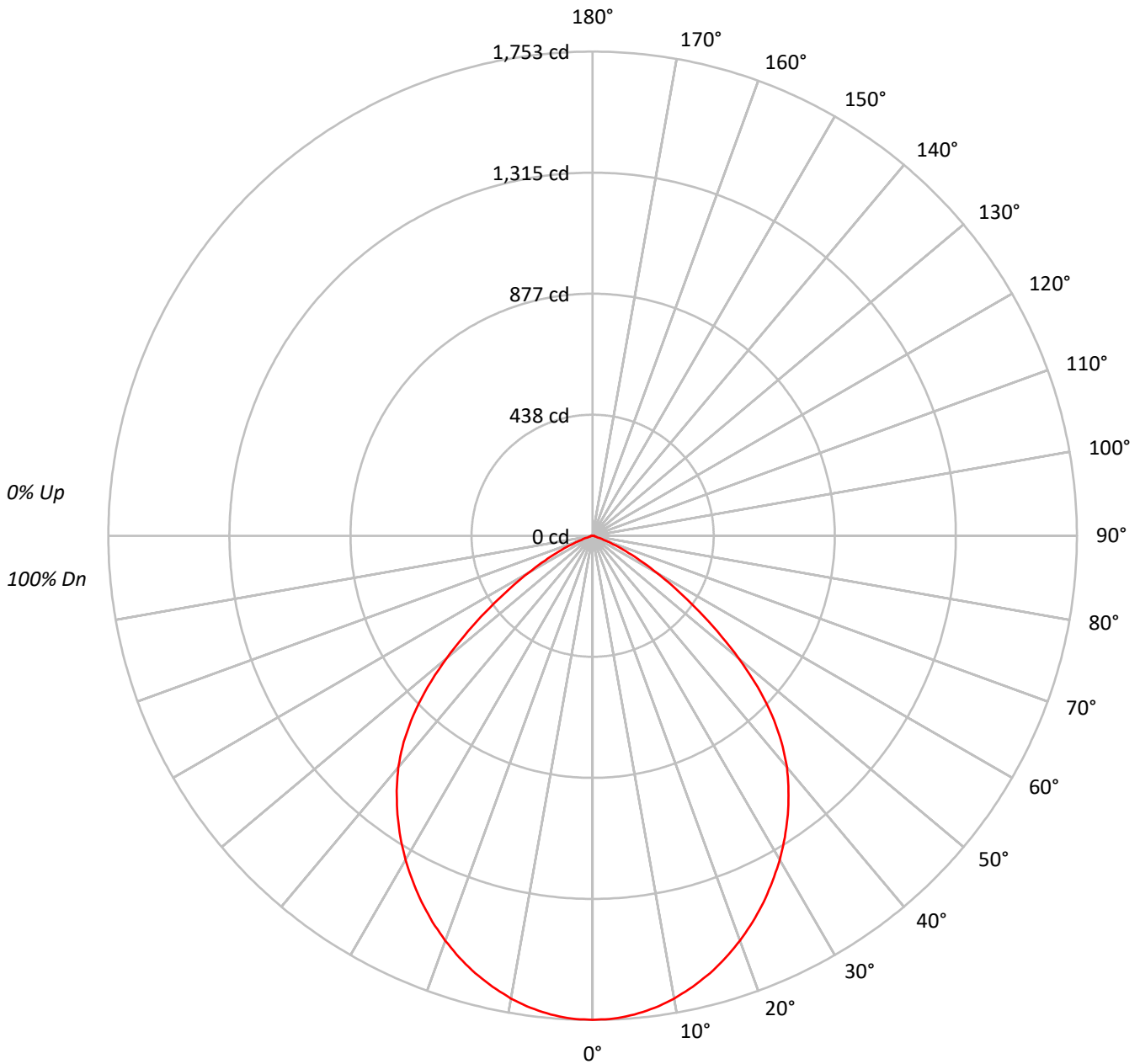
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3338.0 lumens  
Efficiency: N/A  
Efficacy: 67.3 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): 49.6  
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			
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	66	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°	215325
5°	214594
10°	212235
15°	208587
20°	203912
25°	198464
30°	192205
35°	184801
40°	175481
45°	159546
50°	131724
55°	96985
60°	65825
65°	38546
70°	15230
75°	3418
80°	4457
85°	7612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.9	4.9
10°-20°	461.8	13.8
20°-30°	673.6	20.2
30°-40°	768.8	23.0
40°-50°	699.0	20.9
50°-60°	412.2	12.3
60°-70°	138.2	4.1
70°-80°	14.4	0.4
80°-90°	5.0	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°	1300.2	39.0
0°-40°	2069.1	62.0
0°-60°	3180.3	95.3
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1753	
5°	1740	165
15°	1640	462
25°	1464	674
35°	1232	769
45°	918	699
55°	453	412
65°	133	138
75°	7	14
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1752.7
2.5°	1750.0
5°	1740.1
7.5°	1723.9
10°	1701.3
12.5°	1672.4
15°	1640.0
17.5°	1602.1
20°	1559.7
22.5°	1513.7
25°	1464.1
27.5°	1409.9
30°	1354.9
32.5°	1294.5
35°	1232.2
37.5°	1164.6
40°	1094.2
42.5°	1012.1
45°	918.3
47.5°	810.1
50°	689.2
52.5°	568.3
55°	452.8
57.5°	354.5
60°	267.9
62.5°	193.9
65°	132.6
67.5°	81.2
70°	42.4
72.5°	16.2
75°	7.2
77.5°	7.2
80°	6.3
82.5°	5.4
85°	5.4
87.5°	4.5
90°	0.0



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— 0°-180°







(END OF REPORT)