

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: P840059

Luminaire Tested: **LDS4C45D010 EU4459030 4LBPSMMS**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P840059  
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 EU4459030 4LBPSMMS  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

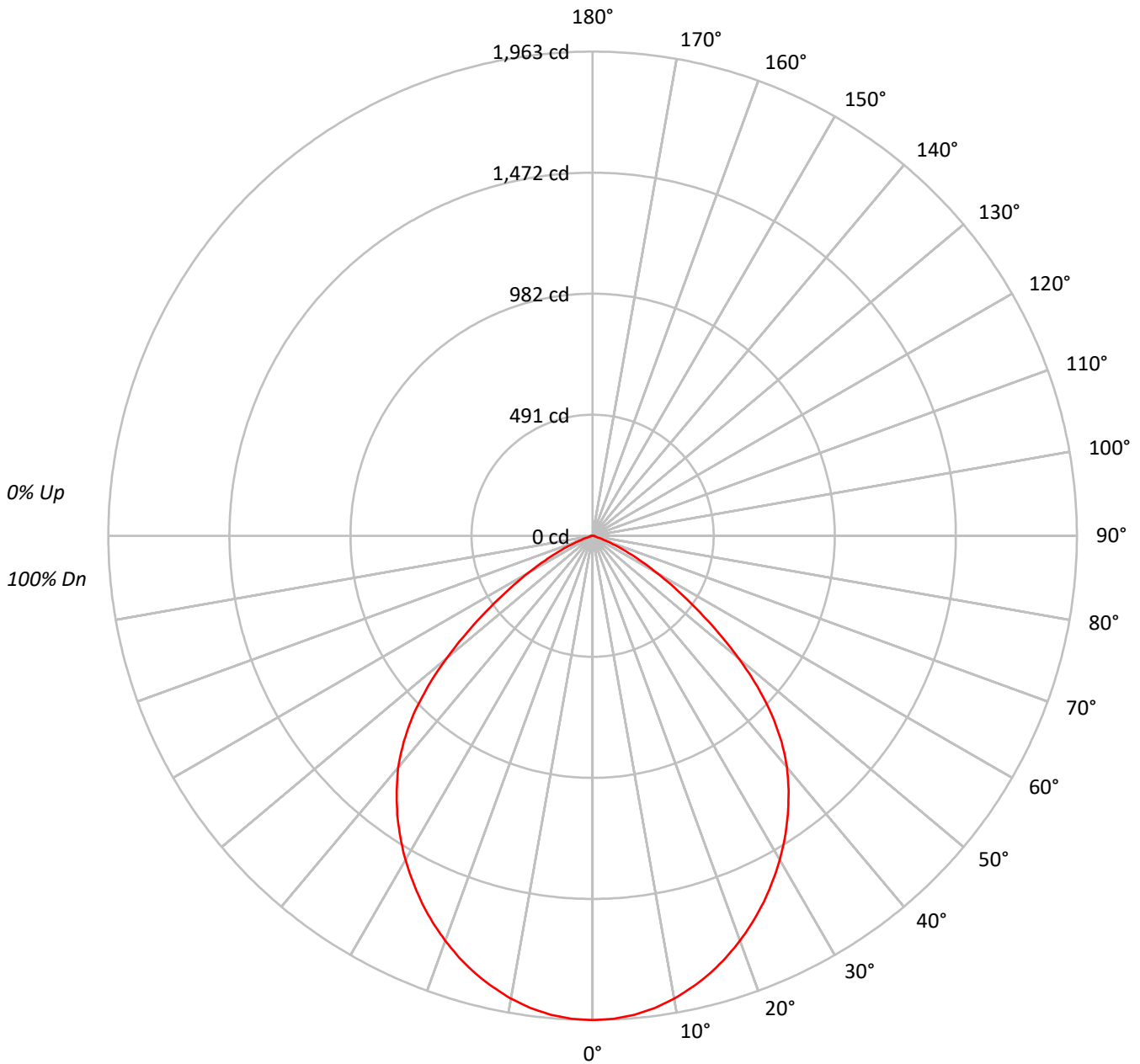
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3739.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 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): 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			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°	241198
5°	240368
10°	237734
15°	233643
20°	228399
25°	222295
30°	215299
35°	207012
40°	196570
45°	178710
50°	147549
55°	108636
60°	73737
65°	43168
70°	17062
75°	3845
80°	5023
85°	8598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	4.9
10°-20°	517.3	13.8
20°-30°	754.5	20.2
30°-40°	861.2	23.0
40°-50°	782.9	20.9
50°-60°	461.8	12.3
60°-70°	154.8	4.1
70°-80°	16.2	0.4
80°-90°	5.7	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°	1456.4	39.0
0°-40°	2317.6	62.0
0°-60°	3562.3	95.3
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1963	
5°	1949	185
15°	1837	517
25°	1640	754
35°	1380	861
45°	1029	783
55°	507	462
65°	148	155
75°	8	16
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1963.3
2.5°	1960.2
5°	1949.1
7.5°	1930.9
10°	1905.7
12.5°	1873.4
15°	1837.0
17.5°	1794.5
20°	1747.0
22.5°	1695.5
25°	1639.9
27.5°	1579.3
30°	1517.7
32.5°	1450.0
35°	1380.3
37.5°	1304.5
40°	1225.7
42.5°	1133.7
45°	1028.6
47.5°	907.4
50°	772.0
52.5°	636.6
55°	507.2
57.5°	397.1
60°	300.1
62.5°	217.2
65°	148.5
67.5°	90.9
70°	47.5
72.5°	18.2
75°	8.1
77.5°	8.1
80°	7.1
82.5°	6.1
85°	6.1
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)