

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: P840087

Luminaire Tested: **LDS4C45D010 EU4459050 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840087  
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 EU4459050 4LBCSMMS  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

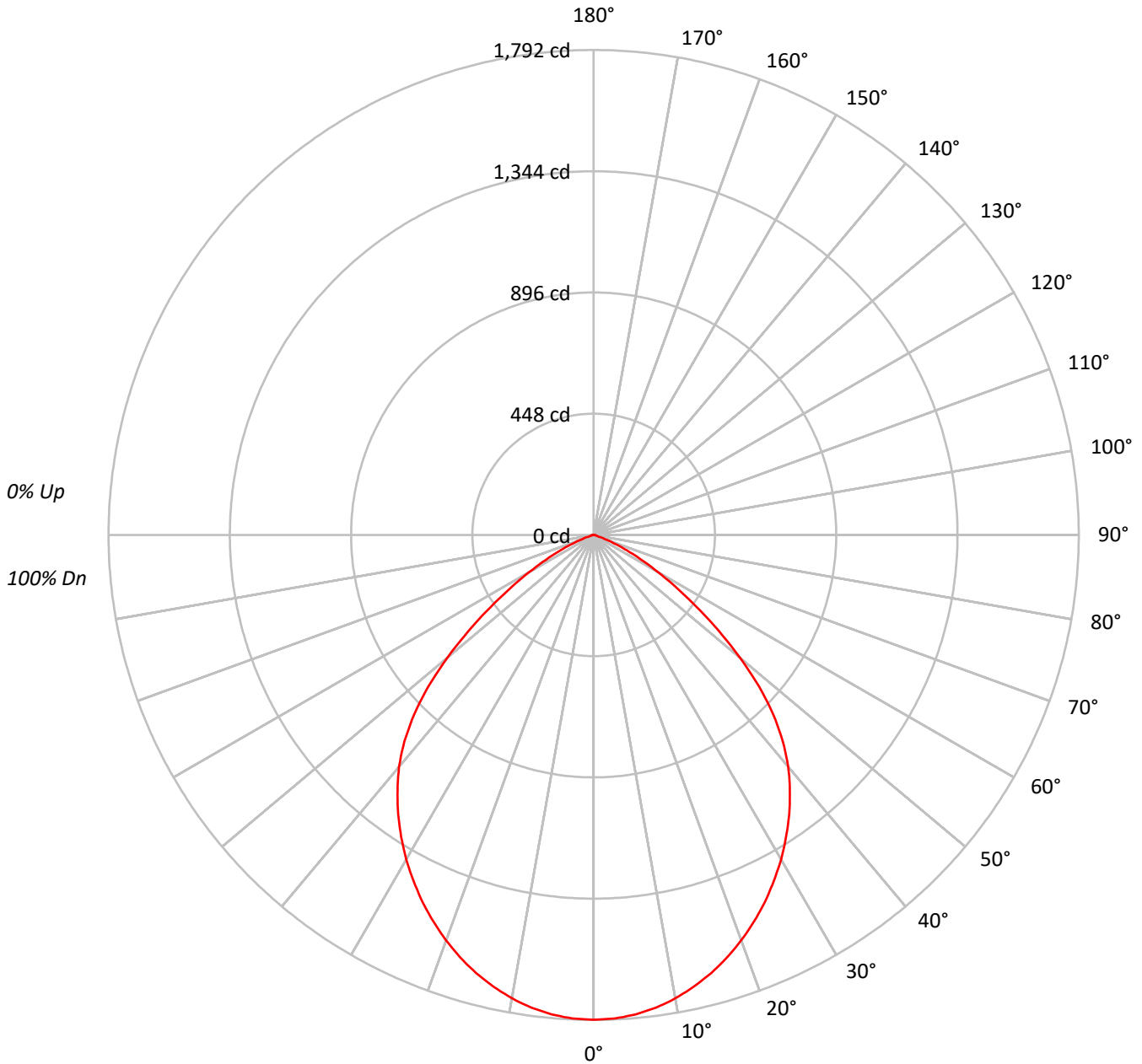
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3412.0 lumens  
Efficiency: N/A  
Efficacy: 68.8 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°	220104
5°	219354
10°	216938
15°	213204
20°	208435
25°	202856
30°	196460
35°	188895
40°	179378
45°	163091
50°	134648
55°	99148
60°	67299
65°	39389
70°	15553
75°	3513
80°	4599
85°	7753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.5	4.9
10°-20°	472.0	13.8
20°-30°	688.5	20.2
30°-40°	785.9	23.0
40°-50°	714.5	20.9
50°-60°	421.4	12.4
60°-70°	141.3	4.1
70°-80°	14.8	0.4
80°-90°	5.1	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°	1329.0	39.0
0°-40°	2114.9	62.0
0°-60°	3250.8	95.3
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1792	
5°	1779	169
15°	1676	472
25°	1496	688
35°	1260	786
45°	939	714
55°	463	421
65°	136	141
75°	7	15
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1791.6
2.5°	1788.8
5°	1778.7
7.5°	1762.1
10°	1739.0
12.5°	1709.5
15°	1676.3
17.5°	1637.6
20°	1594.3
22.5°	1547.2
25°	1496.5
27.5°	1441.2
30°	1384.9
32.5°	1323.2
35°	1259.5
37.5°	1190.4
40°	1118.5
42.5°	1034.6
45°	938.7
47.5°	828.0
50°	704.5
52.5°	580.9
55°	462.9
57.5°	362.4
60°	273.9
62.5°	198.2
65°	135.5
67.5°	83.0
70°	43.3
72.5°	16.6
75°	7.4
77.5°	7.4
80°	6.5
82.5°	5.5
85°	5.5
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)