

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: P840049

Luminaire Tested: **LDS4C45D010 EU4459027 4LBPSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840049  
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 EU4459027 4LBPSMMS  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

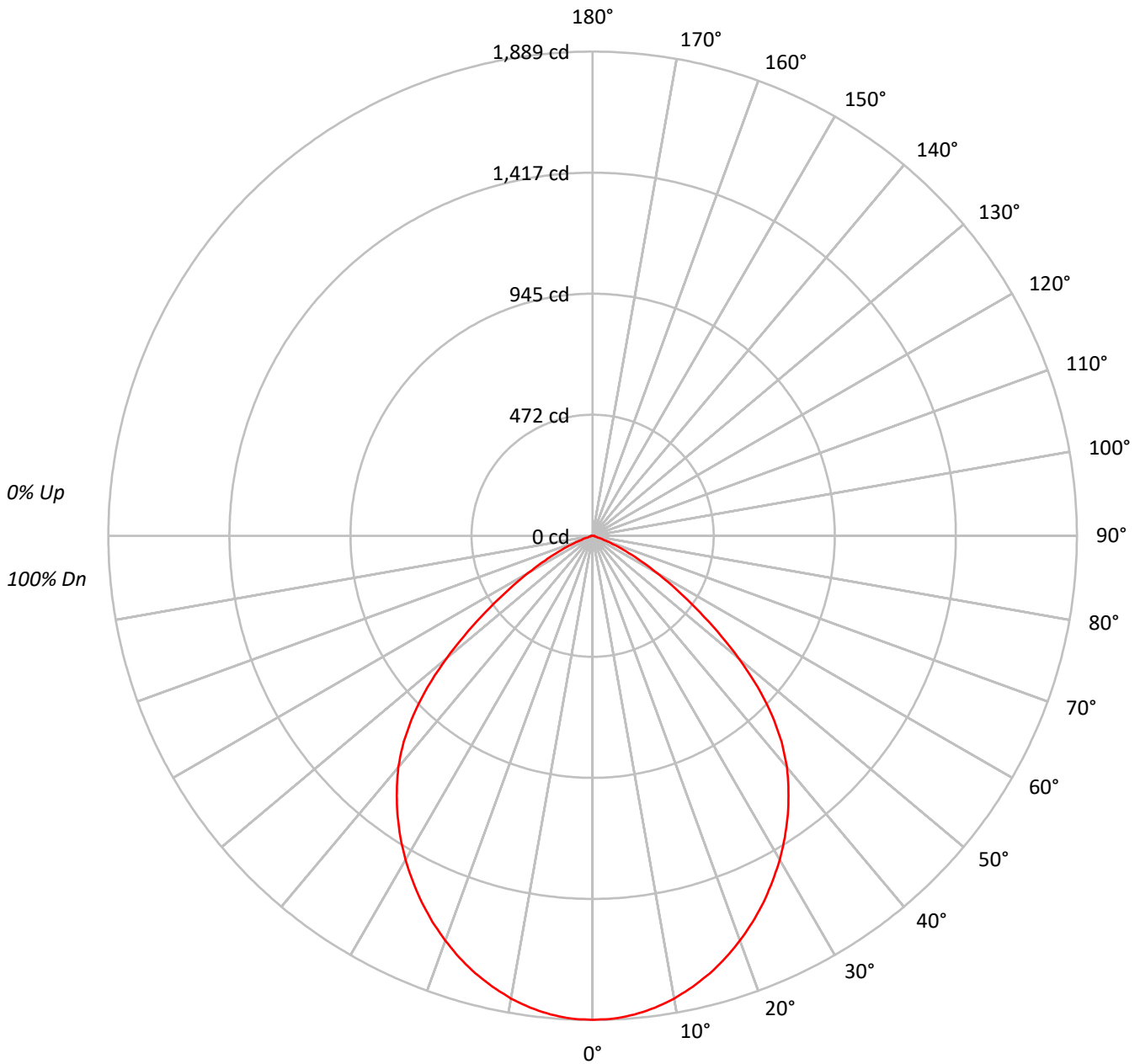
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3597.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 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
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	65	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°	232033
5°	231242
10°	228702
15°	224765
20°	219731
25°	213863
30°	207114
35°	199139
40°	189097
45°	171934
50°	141949
55°	104524
60°	70936
65°	41540
70°	16415
75°	3702
80°	4811
85°	8176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	4.9
10°-20°	497.6	13.8
20°-30°	725.8	20.2
30°-40°	828.5	23.0
40°-50°	753.2	20.9
50°-60°	444.2	12.4
60°-70°	149.0	4.1
70°-80°	15.6	0.4
80°-90°	5.4	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°	1401.1	39.0
0°-40°	2229.6	62.0
0°-60°	3427.0	95.3
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1889	
5°	1875	178
15°	1767	498
25°	1578	726
35°	1328	828
45°	990	753
55°	488	444
65°	143	149
75°	8	16
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1888.7
2.5°	1885.8
5°	1875.1
7.5°	1857.6
10°	1833.3
12.5°	1802.2
15°	1767.2
17.5°	1726.4
20°	1680.7
22.5°	1631.1
25°	1577.7
27.5°	1519.3
30°	1460.0
32.5°	1394.9
35°	1327.8
37.5°	1254.9
40°	1179.1
42.5°	1090.7
45°	989.6
47.5°	872.9
50°	742.7
52.5°	612.4
55°	488.0
57.5°	382.0
60°	288.7
62.5°	209.0
65°	142.9
67.5°	87.5
70°	45.7
72.5°	17.5
75°	7.8
77.5°	7.8
80°	6.8
82.5°	5.8
85°	5.8
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)