

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: P840061

Luminaire Tested: **LDS4C45D010 EU4459030 4LBSGPH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840061  
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 4LBSGPH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

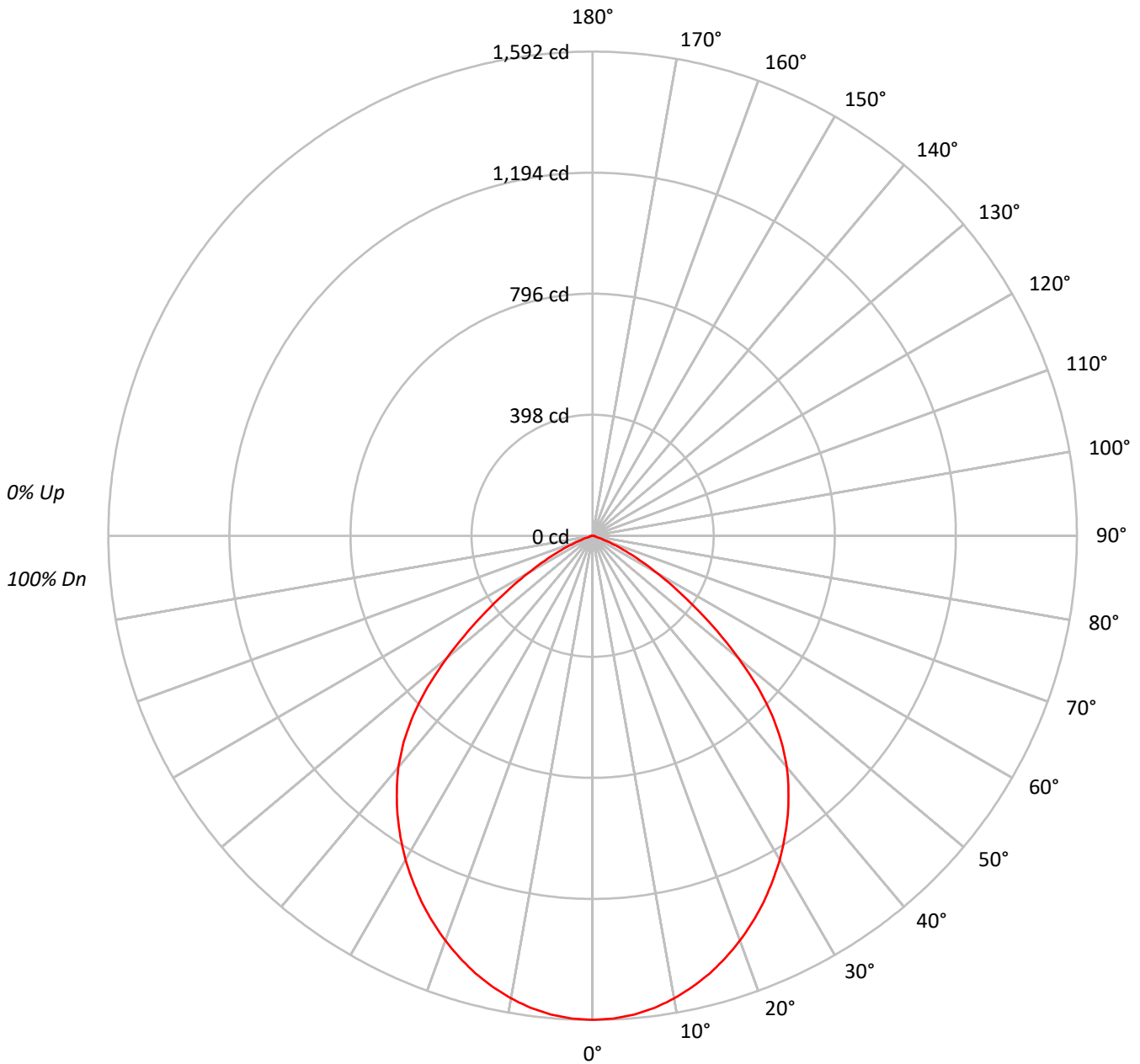
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3031.0 lumens  
Efficiency: N/A  
Efficacy: 61.1 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									
RC	80									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	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°	195521
5°	194862
10°	192712
15°	189395
20°	185151
25°	180205
30°	174529
35°	167809
40°	159347
45°	144865
50°	119607
55°	88074
60°	59781
65°	35000
70°	13829
75°	3133
80°	4033
85°	6907



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.7	4.9
10°-20°	419.3	13.8
20°-30°	611.6	20.2
30°-40°	698.1	23.0
40°-50°	634.7	20.9
50°-60°	374.3	12.3
60°-70°	125.5	4.1
70°-80°	13.1	0.4
80°-90°	4.6	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°	1180.6	39.0
0°-40°	1878.8	62.0
0°-60°	2887.8	95.3
0°-90°	3031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1592	
5°	1580	150
15°	1489	419
25°	1329	612
35°	1119	698
45°	834	635
55°	411	374
65°	120	126
75°	7	13
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1591.5
2.5°	1589.1
5°	1580.1
7.5°	1565.3
10°	1544.8
12.5°	1518.6
15°	1489.1
17.5°	1454.7
20°	1416.2
22.5°	1374.5
25°	1329.4
27.5°	1280.3
30°	1230.3
32.5°	1175.4
35°	1118.9
37.5°	1057.5
40°	993.6
42.5°	919.0
45°	833.8
47.5°	735.6
50°	625.8
52.5°	516.0
55°	411.2
57.5°	321.9
60°	243.3
62.5°	176.1
65°	120.4
67.5°	73.7
70°	38.5
72.5°	14.7
75°	6.6
77.5°	6.6
80°	5.7
82.5°	4.9
85°	4.9
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)