

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: P840081

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSGPH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P840081  
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 EU4459040 4LBSGPH  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

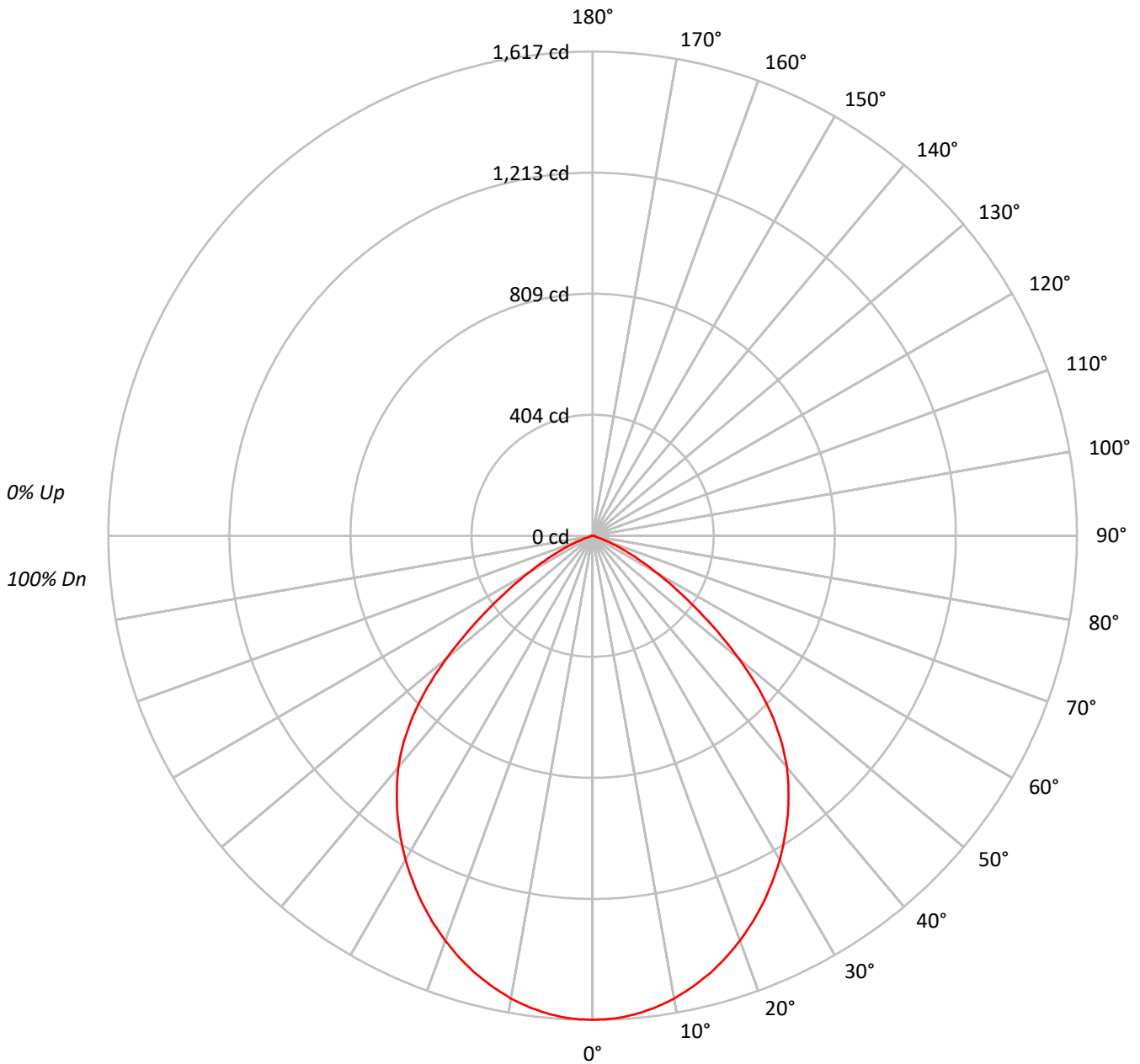
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3079.0 lumens  
Efficiency: N/A  
Efficacy: 62.1 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				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°	198617
5°	197945
10°	195768
15°	192396
20°	188093
25°	183065
30°	177295
35°	170463
40°	161865
45°	147176
50°	121499
55°	89467
60°	60714
65°	35552
70°	14045
75°	3180
80°	4103
85°	7048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.1	4.9
10°-20°	426.0	13.8
20°-30°	621.3	20.2
30°-40°	709.2	23.0
40°-50°	644.7	20.9
50°-60°	380.2	12.3
60°-70°	127.5	4.1
70°-80°	13.3	0.4
80°-90°	4.7	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°	1199.3	39.0
0°-40°	1908.5	62.0
0°-60°	2933.5	95.3
0°-90°	3079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1617	
5°	1605	152
15°	1513	426
25°	1350	621
35°	1137	709
45°	847	645
55°	418	380
65°	122	128
75°	7	13
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1616.7
2.5°	1614.2
5°	1605.1
7.5°	1590.1
10°	1569.3
12.5°	1542.7
15°	1512.7
17.5°	1477.8
20°	1438.7
22.5°	1396.2
25°	1350.5
27.5°	1300.5
30°	1249.8
32.5°	1194.0
35°	1136.6
37.5°	1074.2
40°	1009.3
42.5°	933.6
45°	847.1
47.5°	747.2
50°	635.7
52.5°	524.2
55°	417.7
57.5°	327.0
60°	247.1
62.5°	178.9
65°	122.3
67.5°	74.9
70°	39.1
72.5°	15.0
75°	6.7
77.5°	6.7
80°	5.8
82.5°	5.0
85°	5.0
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)