

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: P839990

Luminaire Tested: **LDS4C35D010 EU4359050 4LBSB**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839990  
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: LDS4C35D010 EU4359050 4LBSB  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH B FINISH  
Light Source: -  
Ballast/Driver: -

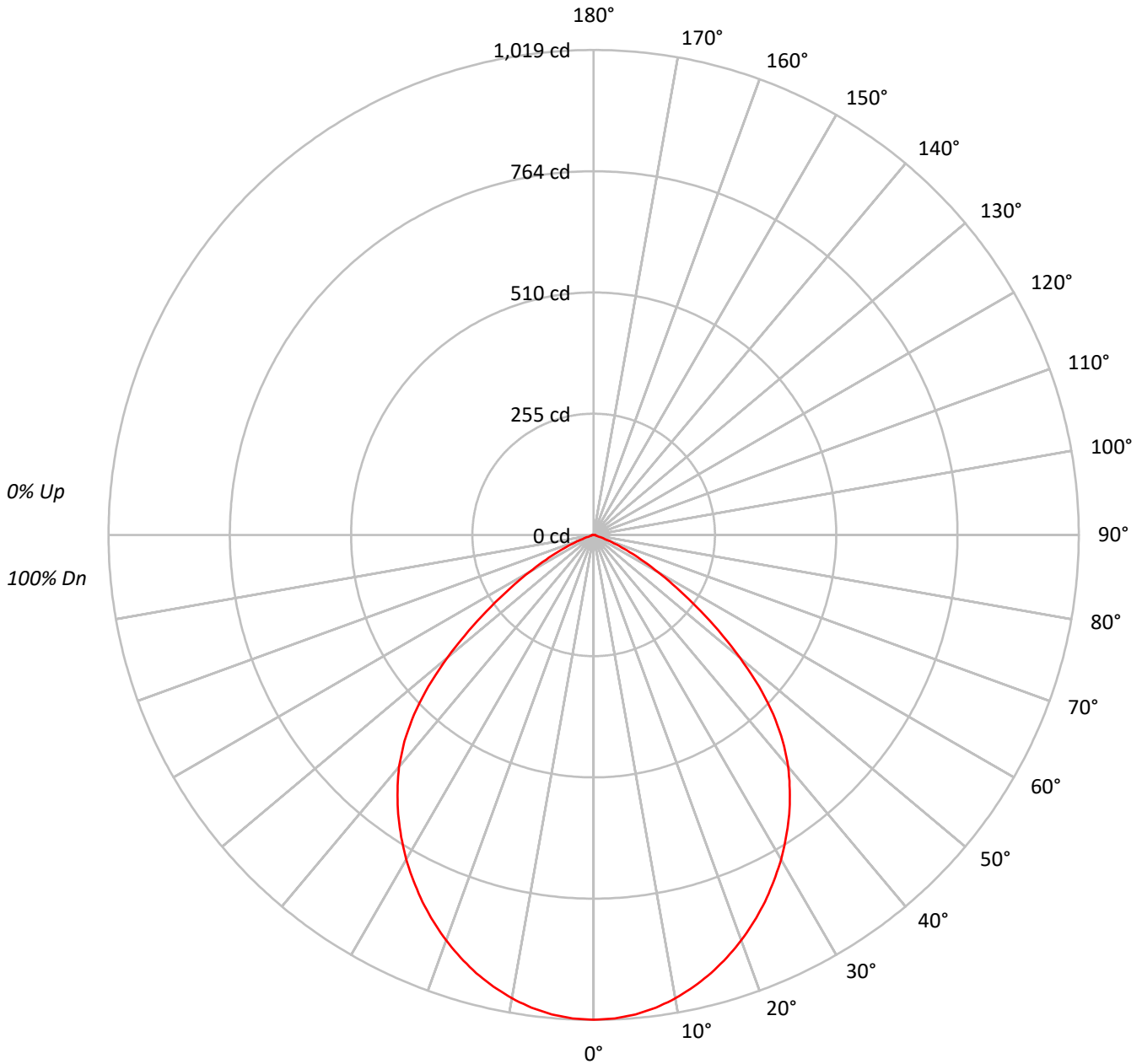
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1939.9 lumens  
Efficiency: N/A  
Efficacy: 48.0 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): 40.4  
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			
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	66	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°	125151
5°	124716
10°	123352
15°	121222
20°	118514
25°	115343
30°	111714
35°	107413
40°	101982
45°	92726
50°	76546
55°	56374
60°	38257
65°	22413
70°	8836
75°	1994
80°	2618
85°	4370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	4.9
10°-20°	268.4	13.8
20°-30°	391.5	20.2
30°-40°	446.8	23.0
40°-50°	406.2	20.9
50°-60°	239.6	12.3
60°-70°	80.4	4.1
70°-80°	8.4	0.4
80°-90°	2.9	0.1
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°	755.7	39.0
0°-40°	1202.5	62.0
0°-60°	1848.3	95.3
0°-90°	1939.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1939.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1019	
5°	1011	96
15°	953	268
25°	851	391
35°	716	447
45°	534	406
55°	263	240
65°	77	80
75°	4	8
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1018.7
2.5°	1017.1
5°	1011.3
7.5°	1001.9
10°	988.8
12.5°	972.0
15°	953.1
17.5°	931.1
20°	906.5
22.5°	879.7
25°	850.9
27.5°	819.4
30°	787.5
32.5°	752.3
35°	716.2
37.5°	676.8
40°	635.9
42.5°	588.2
45°	533.7
47.5°	470.8
50°	400.5
52.5°	330.3
55°	263.2
57.5°	206.0
60°	155.7
62.5°	112.7
65°	77.1
67.5°	47.2
70°	24.6
72.5°	9.4
75°	4.2
77.5°	4.2
80°	3.7
82.5°	3.1
85°	3.1
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)