

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: P839947

Luminaire Tested: **LDS4C35D010 EU4359027 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839947  
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 EU4359027 4LBCSMMS  
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

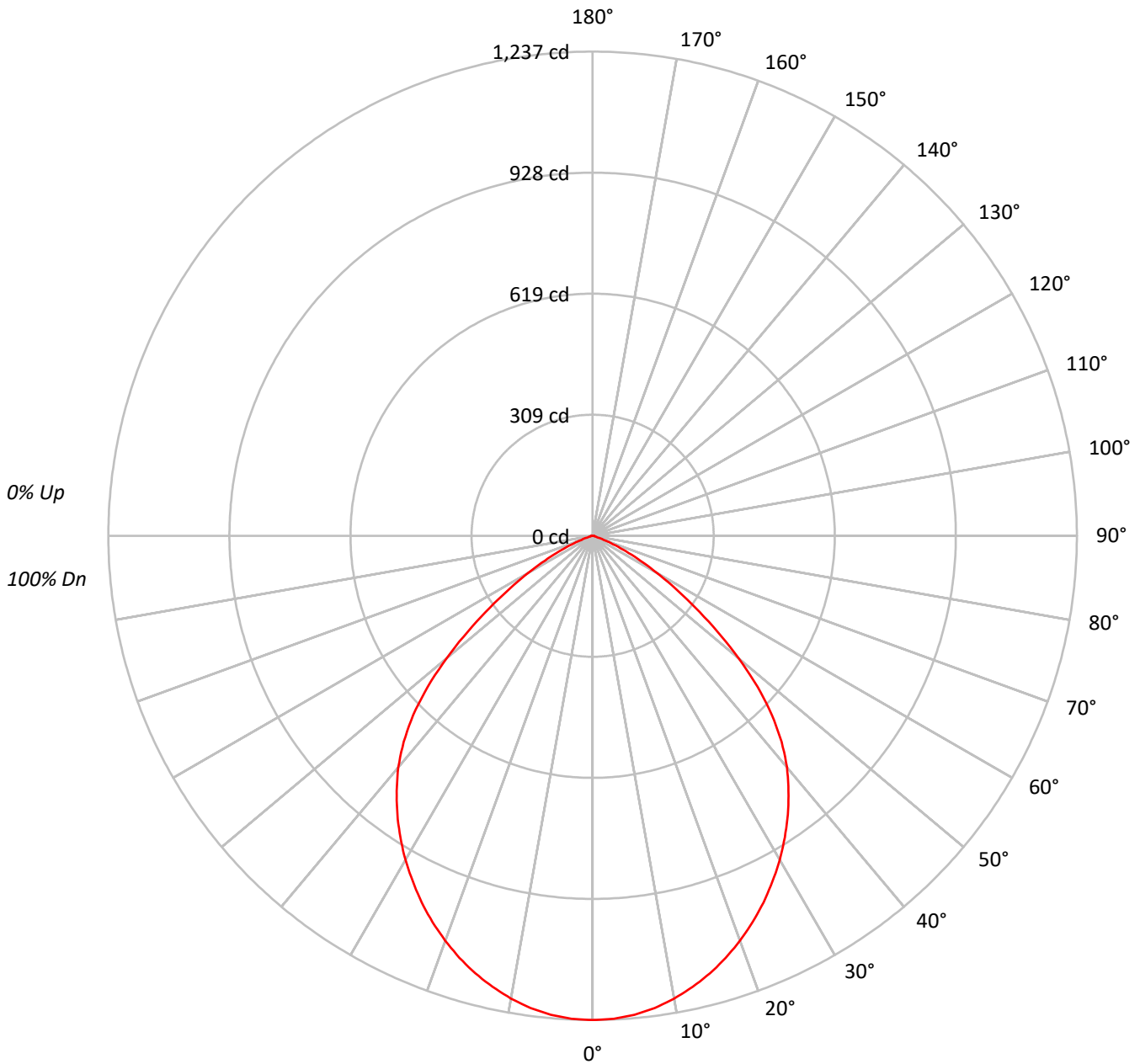
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2356.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	151982
5°	151465
10°	149798
15°	147219
20°	143916
25°	140081
30°	135660
35°	130434
40°	123857
45°	112619
50°	92964
55°	68455
60°	46463
65°	27209
70°	10740
75°	2421
80°	3184
85°	5356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.4	4.9
10°-20°	325.9	13.8
20°-30°	475.4	20.2
30°-40°	542.7	23.0
40°-50°	493.3	20.9
50°-60°	291.0	12.3
60°-70°	97.6	4.1
70°-80°	10.2	0.4
80°-90°	3.6	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°	917.7	39.0
0°-40°	1460.4	62.0
0°-60°	2244.7	95.3
0°-90°	2356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1237	
5°	1228	116
15°	1158	326
25°	1033	475
35°	870	543
45°	648	493
55°	320	291
65°	94	98
75°	5	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1237.1
2.5°	1235.2
5°	1228.2
7.5°	1216.7
10°	1200.8
12.5°	1180.4
15°	1157.5
17.5°	1130.8
20°	1100.8
22.5°	1068.4
25°	1033.4
27.5°	995.1
30°	956.3
32.5°	913.7
35°	869.7
37.5°	822.0
40°	772.3
42.5°	714.4
45°	648.2
47.5°	571.7
50°	486.4
52.5°	401.1
55°	319.6
57.5°	250.2
60°	189.1
62.5°	136.9
65°	93.6
67.5°	57.3
70°	29.9
72.5°	11.5
75°	5.1
77.5°	5.1
80°	4.5
82.5°	3.8
85°	3.8
87.5°	3.2
90°	0.0



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— 0°-180°







(END OF REPORT)