

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: P839827

Luminaire Tested: **LDS4C20D010 EU4209040 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839827  
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: LDS4C20D010 EU4209040 4LBCSMMS  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

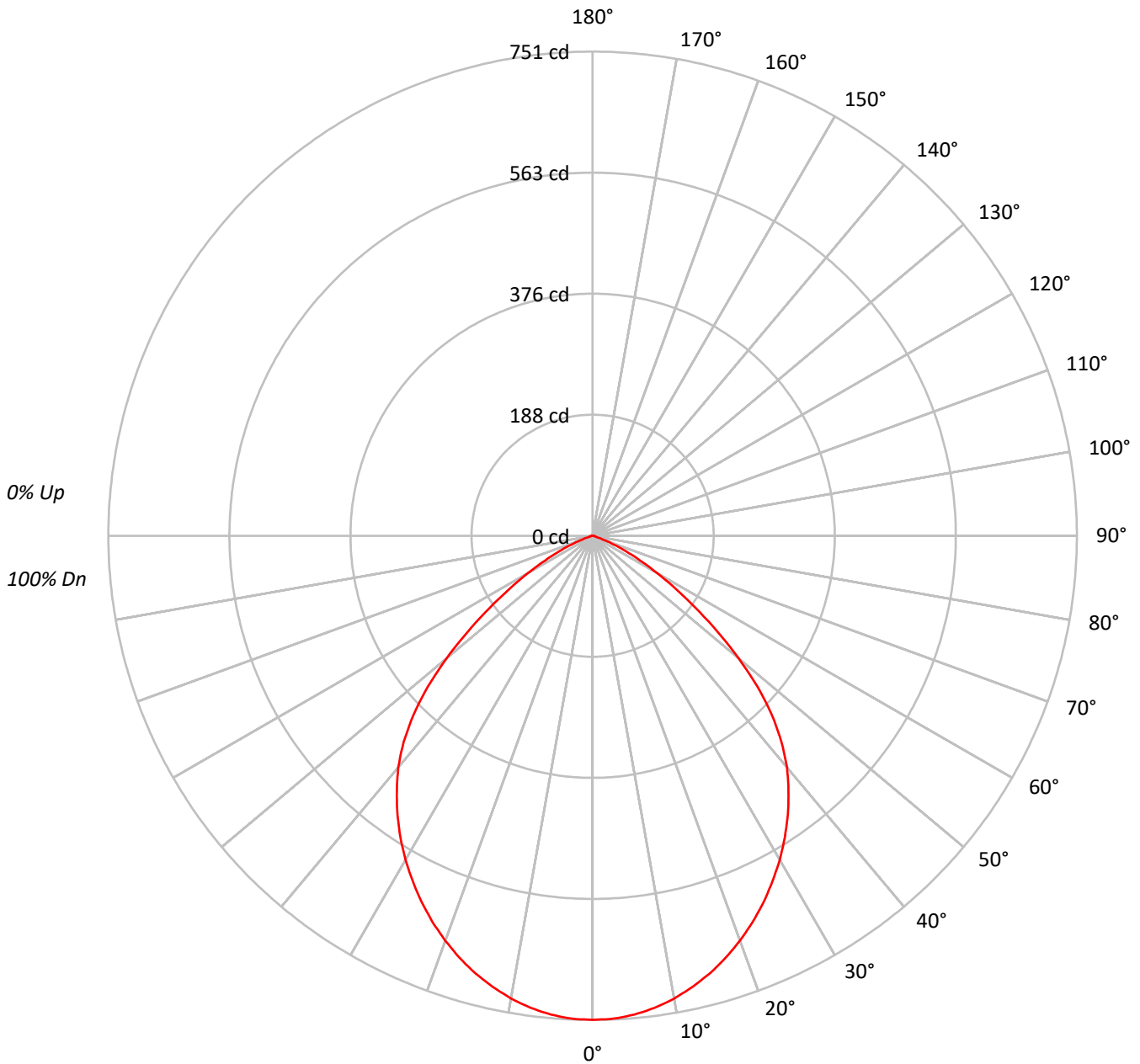
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1430.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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): 21.8  
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°	92251
5°	91937
10°	90917
15°	89362
20°	87359
25°	85019
30°	82335
35°	79173
40°	75183
45°	68350
50°	56420
55°	41553
60°	28207
65°	16512
70°	6537
75°	1471
80°	1910
85°	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	4.9
10°-20°	197.8	13.8
20°-30°	288.6	20.2
30°-40°	329.4	23.0
40°-50°	299.4	20.9
50°-60°	176.6	12.4
60°-70°	59.2	4.1
70°-80°	6.2	0.4
80°-90°	2.1	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°	557.0	39.0
0°-40°	886.4	62.0
0°-60°	1362.4	95.3
0°-90°	1430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	751	
5°	746	71
15°	703	198
25°	627	289
35°	528	329
45°	393	299
55°	194	177
65°	57	59
75°	3	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	750.9
2.5°	749.7
5°	745.5
7.5°	738.5
10°	728.8
12.5°	716.5
15°	702.6
17.5°	686.3
20°	668.2
22.5°	648.5
25°	627.2
27.5°	604.0
30°	580.4
32.5°	554.6
35°	527.9
37.5°	498.9
40°	468.8
42.5°	433.6
45°	393.4
47.5°	347.0
50°	295.2
52.5°	243.5
55°	194.0
57.5°	151.9
60°	114.8
62.5°	83.1
65°	56.8
67.5°	34.8
70°	18.2
72.5°	7.0
75°	3.1
77.5°	3.1
80°	2.7
82.5°	2.3
85°	2.3
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)