

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: P840335

Luminaire Tested: **LDS4C20D010 EU4209040 4LBPSSQMMS**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840335  
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 4LBPSSQMMS  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

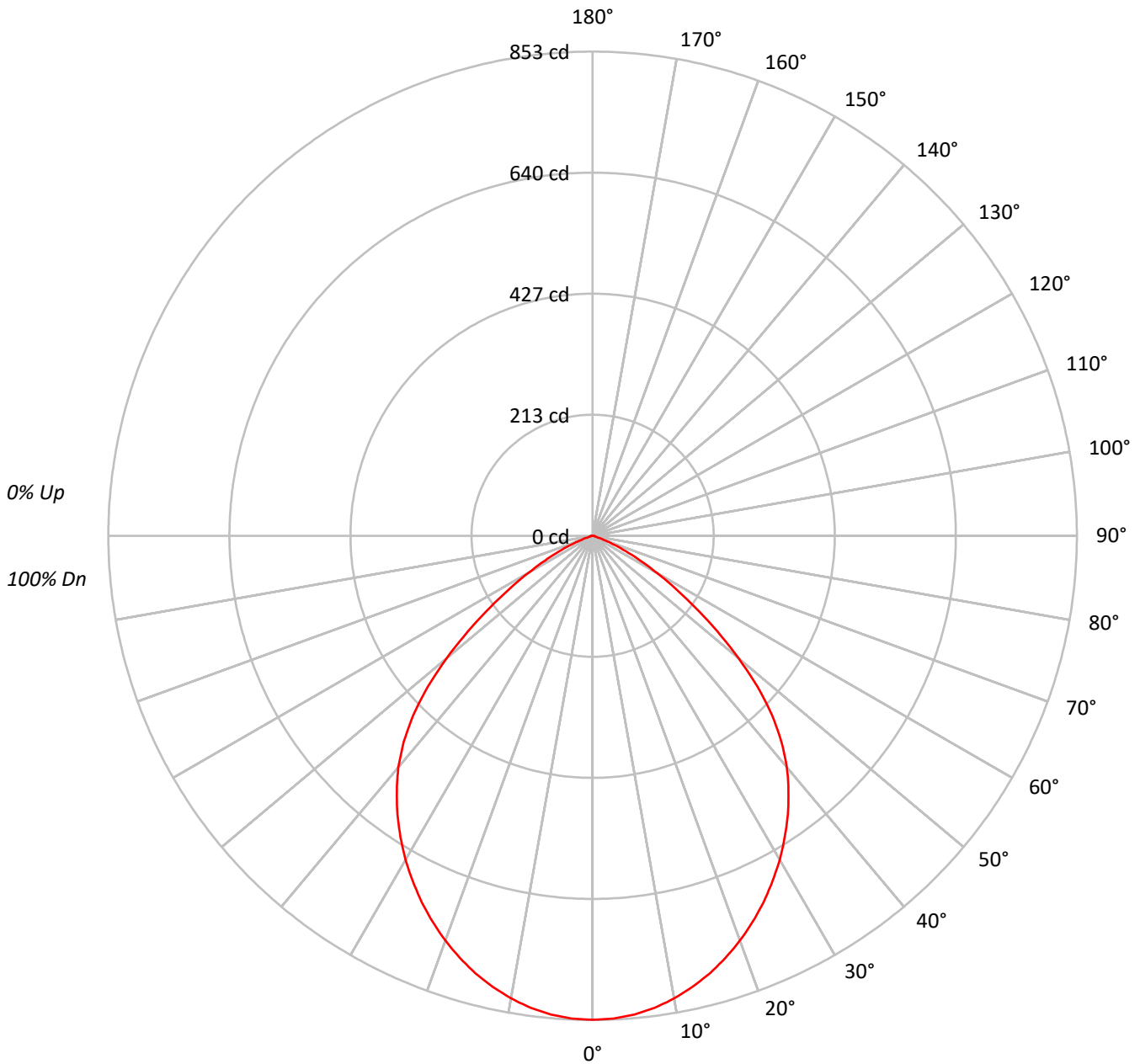
Lumens per Lamp: N/A  
Luminaire Lumens: 1624.0 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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			
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°	82276
5°	82000
10°	81096
15°	79704
20°	77915
25°	75834
30°	73445
35°	70616
40°	67060
45°	60968
50°	50332
55°	37060
60°	25145
65°	14726
70°	5812
75°	1305
80°	1723
85°	2878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	4.9
10°-20°	224.7	13.8
20°-30°	327.7	20.2
30°-40°	374.1	23.0
40°-50°	340.1	20.9
50°-60°	200.6	12.3
60°-70°	67.3	4.1
70°-80°	7.0	0.4
80°-90°	2.4	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°	632.6	39.0
0°-40°	1006.7	62.0
0°-60°	1547.3	95.3
0°-90°	1624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	853	
5°	847	80
15°	798	225
25°	712	328
35°	600	374
45°	447	340
55°	220	201
65°	64	67
75°	4	7
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	852.7
2.5°	851.4
5°	846.6
7.5°	838.7
10°	827.7
12.5°	813.7
15°	797.9
17.5°	779.4
20°	758.8
22.5°	736.4
25°	712.3
27.5°	686.0
30°	659.2
32.5°	629.8
35°	599.5
37.5°	566.6
40°	532.4
42.5°	492.4
45°	446.8
47.5°	394.1
50°	335.3
52.5°	276.5
55°	220.3
57.5°	172.5
60°	130.3
62.5°	94.4
65°	64.5
67.5°	39.5
70°	20.6
72.5°	7.9
75°	3.5
77.5°	3.5
80°	3.1
82.5°	2.6
85°	2.6
87.5°	2.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)