

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: P840462

Luminaire Tested: **LDS4C90D010 EU4909035 4LBPSSQMB**

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: P840462  
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: LDS4C90D010 EU4909035 4LBPSSQMB  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

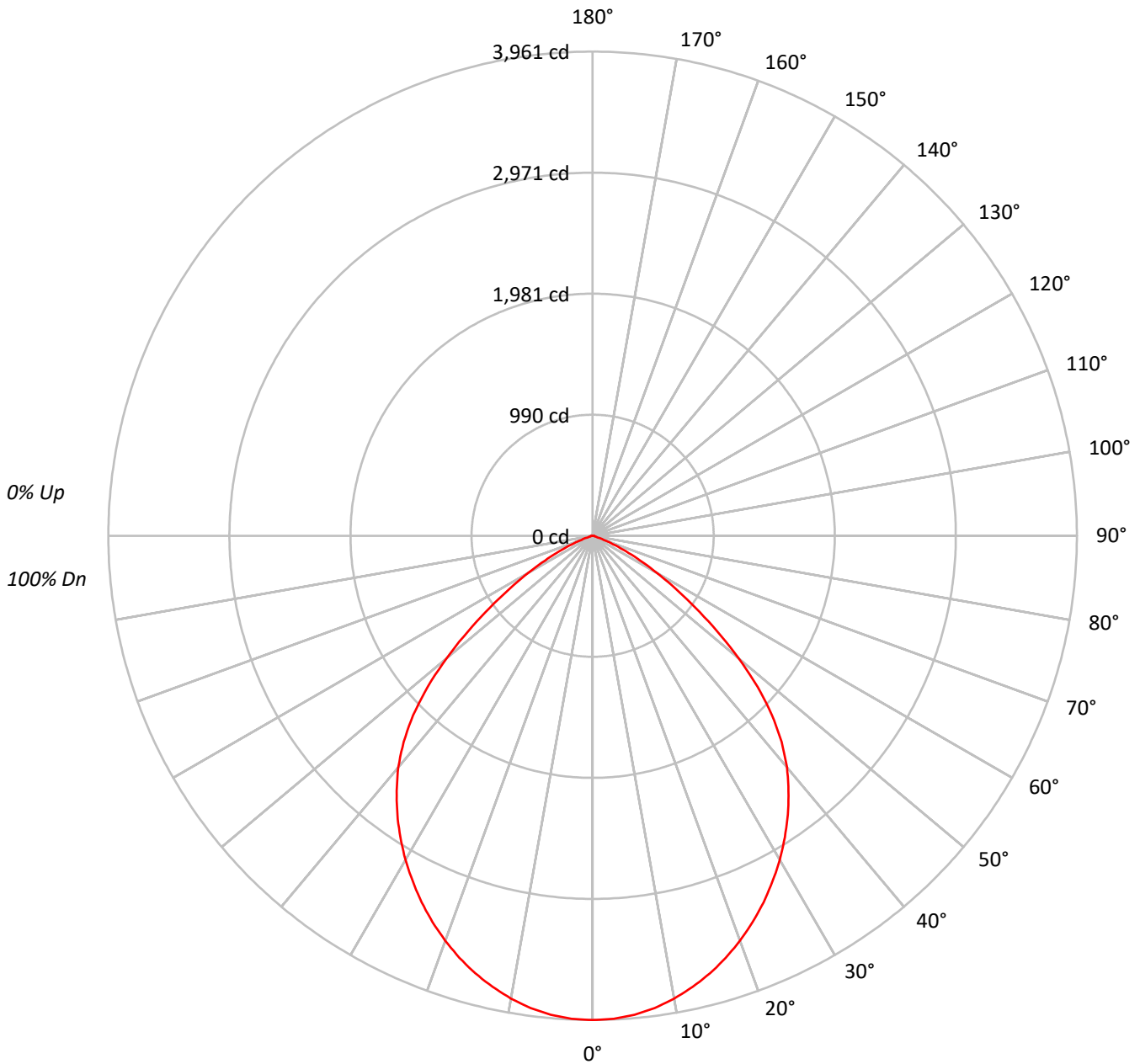
Lumens per Lamp: N/A  
Luminaire Lumens: 7544.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 97.1  
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	65	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°	382212
5°	380911
10°	376723
15°	370242
20°	361941
25°	352267
30°	341166
35°	328037
40°	311492
45°	283201
50°	233811
55°	172160
60°	116848
65°	68425
70°	27027
75°	6077
80°	7946
85°	13506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	4.9
10°-20°	1043.7	13.8
20°-30°	1522.3	20.2
30°-40°	1737.6	23.0
40°-50°	1579.7	20.9
50°-60°	931.7	12.3
60°-70°	312.5	4.1
70°-80°	32.6	0.4
80°-90°	11.4	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°	2938.5	39.0
0°-40°	4676.2	62.0
0°-60°	7187.5	95.3
0°-90°	7544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7544.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3961	
5°	3933	373
15°	3706	1044
25°	3309	1522
35°	2785	1738
45°	2075	1580
55°	1023	932
65°	300	312
75°	16	33
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3961.2
2.5°	3955.1
5°	3932.7
7.5°	3896.0
10°	3845.0
12.5°	3779.8
15°	3706.4
17.5°	3620.8
20°	3524.9
22.5°	3421.0
25°	3308.8
27.5°	3186.5
30°	3062.1
32.5°	2925.5
35°	2784.9
37.5°	2632.0
40°	2473.0
42.5°	2287.4
45°	2075.4
47.5°	1830.8
50°	1557.6
52.5°	1284.4
55°	1023.4
57.5°	801.2
60°	605.5
62.5°	438.3
65°	299.7
67.5°	183.5
70°	95.8
72.5°	36.7
75°	16.3
77.5°	16.3
80°	14.3
82.5°	12.2
85°	12.2
87.5°	10.2
90°	0.0



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— 0°-180°







(END OF REPORT)