

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: P#

Luminaire Tested: **LD4C90D010 EX4C909030 4LBSQH**

Issue Date: 2/9/2022

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: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EX4C909030 4LBSQH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQ TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

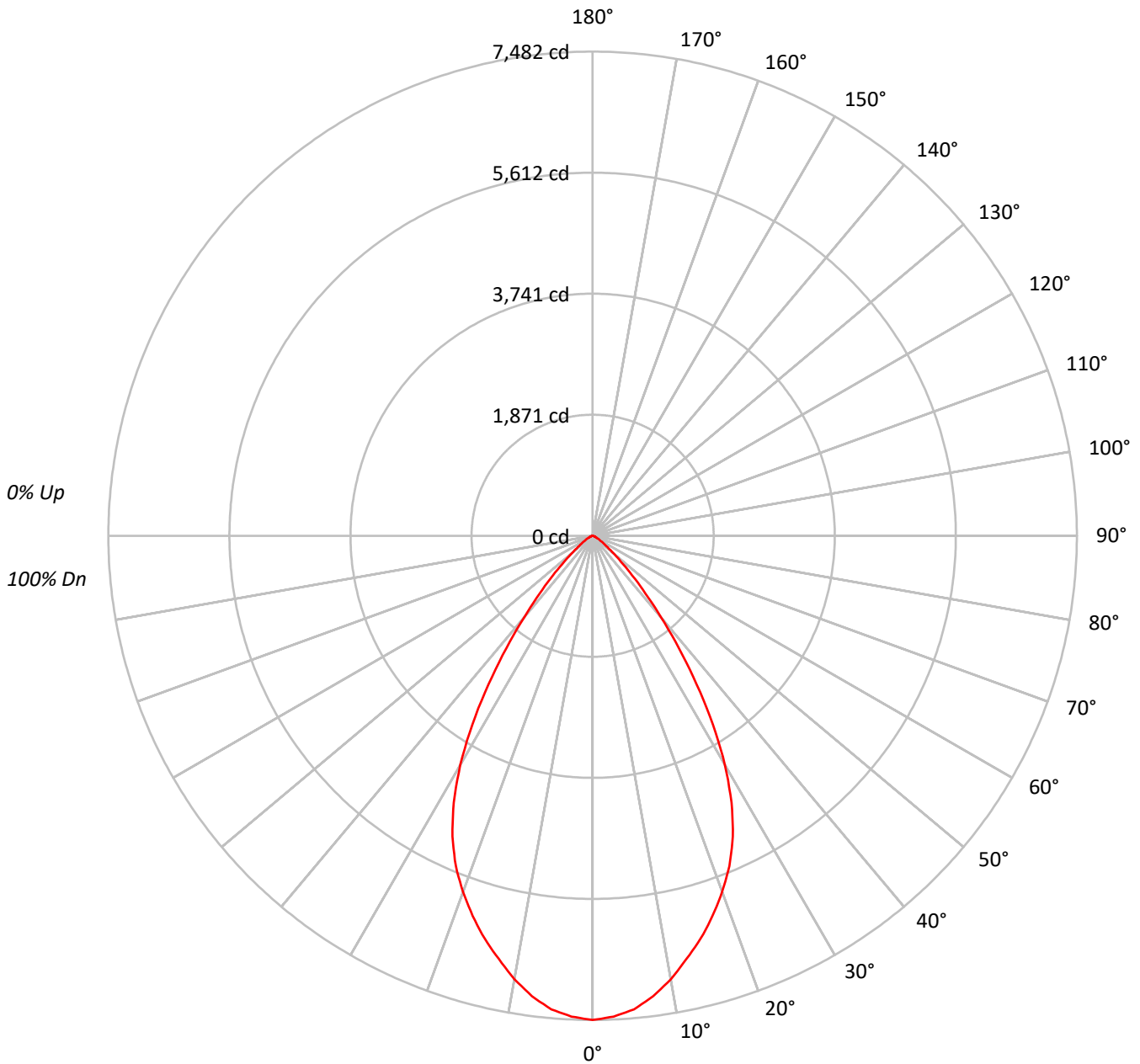
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7546.0 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
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 (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47

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

	0°
0°	721959
5°	711476
10°	681746
15°	643908
20°	601055
25°	545616
30°	455546
35°	330016
40°	206583
45°	118089
50°	61575
55°	34503
60°	21980
65°	13014
70°	9648
75°	4250
80°	6334
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.5	9.1
10°-20°	1806.2	23.9
20°-30°	2321.3	30.8
30°-40°	1746.5	23.1
40°-50°	701.5	9.3
50°-60°	199.4	2.6
60°-70°	63.2	0.8
70°-80°	18.0	0.2
80°-90°	1.5	0.0
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°	4816.0	63.8
0°-40°	6562.5	87.0
0°-60°	7463.3	98.9
0°-90°	7546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7482	
5°	7346	688
15°	6446	1806
25°	5125	2321
35°	2802	1746
45°	865	701
55°	205	199
65°	57	63
75°	11	18
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7482.3
2.5°	7436.8
5°	7345.6
7.5°	7174.7
10°	6958.2
12.5°	6696.7
15°	6446.0
17.5°	6161.2
20°	5853.6
22.5°	5523.7
25°	5124.9
27.5°	4646.4
30°	4088.7
32.5°	3462.0
35°	2801.7
37.5°	2186.5
40°	1640.1
42.5°	1207.2
45°	865.4
47.5°	592.5
50°	410.2
52.5°	284.8
55°	205.1
57.5°	148.1
60°	113.9
62.5°	79.8
65°	57.0
67.5°	45.6
70°	34.2
72.5°	22.8
75°	11.4
77.5°	11.4
80°	11.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)