

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 EX4C909050 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 EX4C909050 4LBSQH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

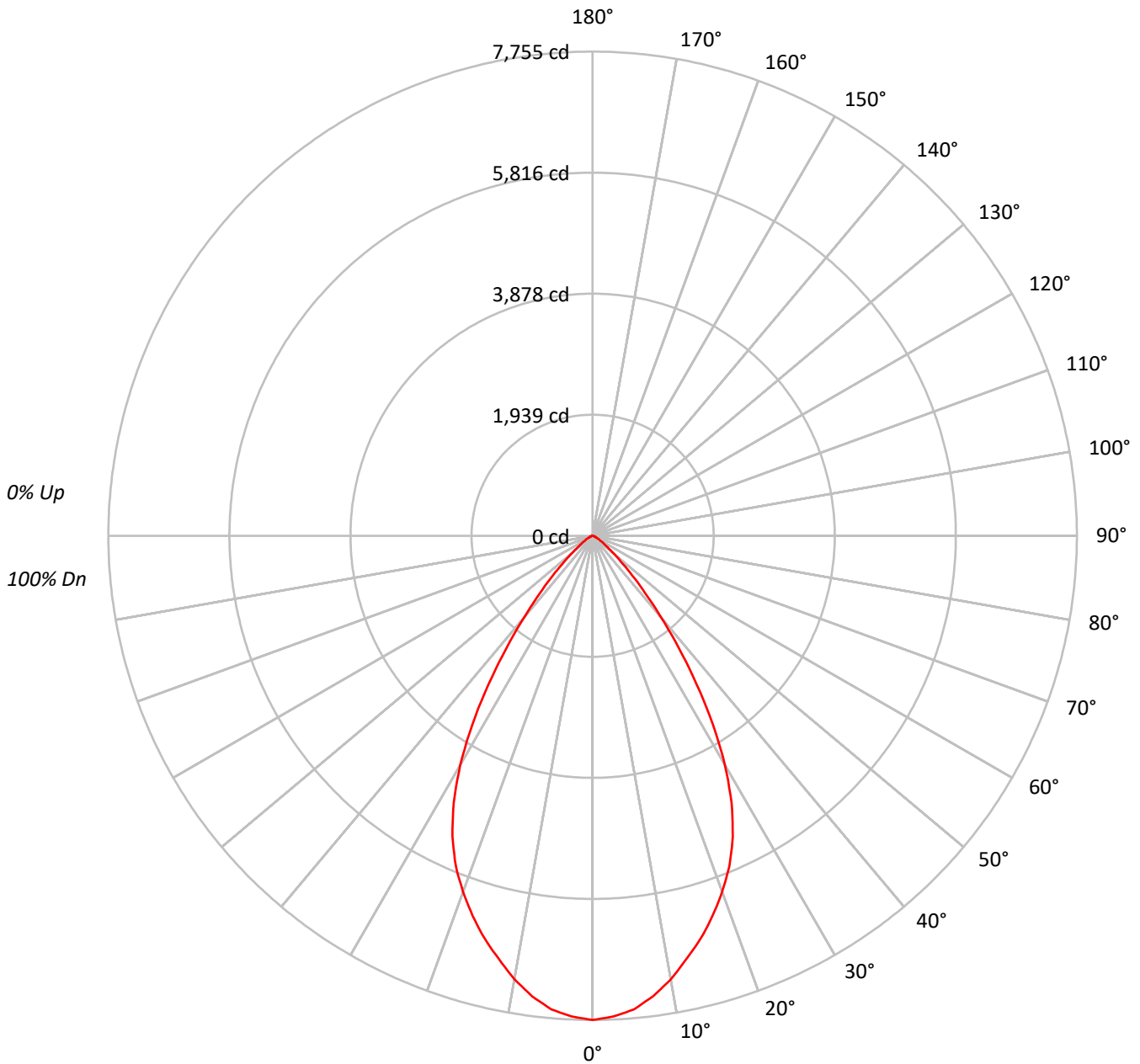
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7821.0 lumens
Efficiency: N/A
Efficacy: 80.5 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 (A_{in}): 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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	748271
5°	737405
10°	706593
15°	667383
20°	622957
25°	565503
30°	472147
35°	342042
40°	214115
45°	122387
50°	63812
55°	35764
60°	22791
65°	13470
70°	9987
75°	4399
80°	6557
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.6	9.1
10°-20°	1872.1	23.9
20°-30°	2405.9	30.8
30°-40°	1810.1	23.1
40°-50°	727.0	9.3
50°-60°	206.7	2.6
60°-70°	65.4	0.8
70°-80°	18.6	0.2
80°-90°	1.6	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°	4991.5	63.8
0°-40°	6801.7	87.0
0°-60°	7735.3	98.9
0°-90°	7821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7821.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7755	
5°	7613	714
15°	6681	1872
25°	5312	2406
35°	2904	1810
45°	897	727
55°	213	207
65°	59	65
75°	12	19
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7755.0
2.5°	7707.8
5°	7613.3
7.5°	7436.2
10°	7211.8
12.5°	6940.8
15°	6681.0
17.5°	6385.7
20°	6066.9
22.5°	5725.0
25°	5311.7
27.5°	4815.7
30°	4237.7
32.5°	3588.2
35°	2903.8
37.5°	2266.2
40°	1699.9
42.5°	1251.2
45°	896.9
47.5°	614.0
50°	425.1
52.5°	295.2
55°	212.6
57.5°	153.5
60°	118.1
62.5°	82.7
65°	59.0
67.5°	47.2
70°	35.4
72.5°	23.6
75°	11.8
77.5°	11.8
80°	11.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)