

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: **LD4C50D010 EX4C509027 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: LD4C50D010 EX4C509027 4LBSQH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQ TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

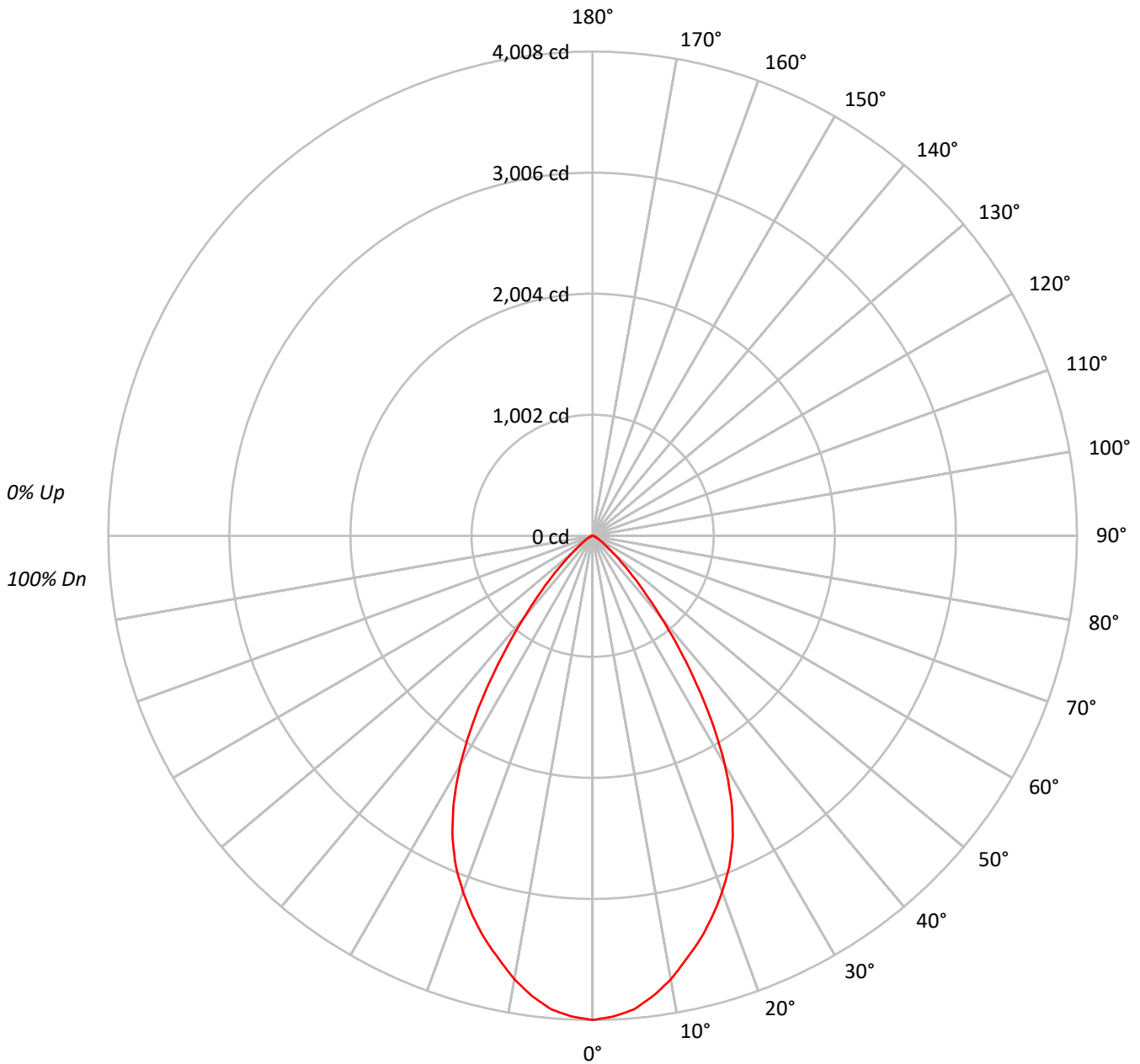
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.0 lumens
Efficiency: N/A
Efficacy: 69.2 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): 58.4
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°	386718
5°	381105
10°	365181
15°	344909
20°	321957
25°	292264
30°	244012
35°	176769
40°	110653
45°	63247
50°	32979
55°	18488
60°	11772
65°	6964
70°	5163
75°	2274
80°	3390
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	9.1
10°-20°	967.5	23.9
20°-30°	1243.4	30.8
30°-40°	935.5	23.1
40°-50°	375.7	9.3
50°-60°	106.8	2.6
60°-70°	33.8	0.8
70°-80°	9.6	0.2
80°-90°	0.8	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°	2579.7	63.8
0°-40°	3515.2	87.0
0°-60°	3997.7	98.9
0°-90°	4042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4042.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4008	
5°	3935	369
15°	3453	968
25°	2745	1243
35°	1501	935
45°	464	376
55°	110	107
65°	30	34
75°	6	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4007.9
2.5°	3983.5
5°	3934.7
7.5°	3843.1
10°	3727.2
12.5°	3587.1
15°	3452.8
17.5°	3300.2
20°	3135.5
22.5°	2958.8
25°	2745.2
27.5°	2488.8
30°	2190.1
32.5°	1854.4
35°	1500.7
37.5°	1171.2
40°	878.5
42.5°	646.6
45°	463.5
47.5°	317.3
50°	219.7
52.5°	152.6
55°	109.9
57.5°	79.3
60°	61.0
62.5°	42.7
65°	30.5
67.5°	24.4
70°	18.3
72.5°	12.2
75°	6.1
77.5°	6.1
80°	6.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)