

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 EX4C509030 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 EX4C509030 4LBSQH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQ TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

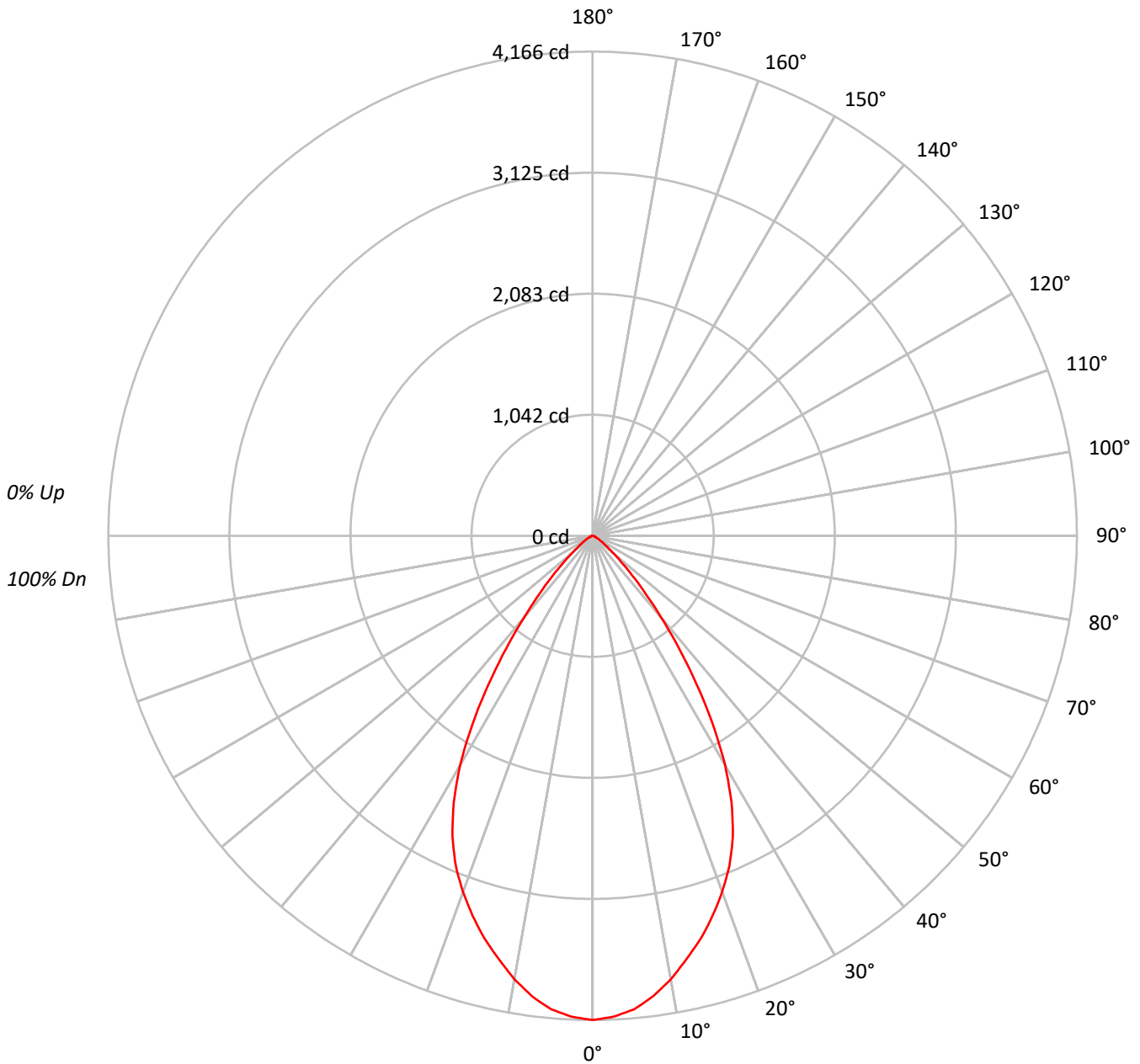
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201.9 lumens
Efficiency: N/A
Efficacy: 72.0 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	50	30	10
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°	402021
5°	396186
10°	379633
15°	358565
20°	334700
25°	303826
30°	253671
35°	183766
40°	115037
45°	65758
50°	34285
55°	19211
60°	12235
65°	7237
70°	5360
75°	2349
80°	3501
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	9.1
10°-20°	1005.8	23.9
20°-30°	1292.6	30.8
30°-40°	972.5	23.1
40°-50°	390.6	9.3
50°-60°	111.0	2.6
60°-70°	35.1	0.8
70°-80°	10.0	0.2
80°-90°	0.9	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°	2681.8	63.8
0°-40°	3654.3	87.0
0°-60°	4156.0	98.9
0°-90°	4201.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4166	
5°	4090	383
15°	3590	1006
25°	2854	1293
35°	1560	973
45°	482	391
55°	114	111
65°	32	35
75°	6	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4166.5
2.5°	4141.2
5°	4090.4
7.5°	3995.2
10°	3874.7
12.5°	3729.1
15°	3589.5
17.5°	3430.9
20°	3259.6
22.5°	3075.9
25°	2853.8
27.5°	2587.4
30°	2276.8
32.5°	1927.8
35°	1560.1
37.5°	1217.5
40°	913.3
42.5°	672.2
45°	481.9
47.5°	329.9
50°	228.4
52.5°	158.6
55°	114.2
57.5°	82.5
60°	63.4
62.5°	44.4
65°	31.7
67.5°	25.4
70°	19.0
72.5°	12.7
75°	6.3
77.5°	6.3
80°	6.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)