

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: P840388

Luminaire Tested: **LDS4C50D010 EU4509027 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: P840388
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: LDS4C50D010 EU4509027 4LBSSQMB
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

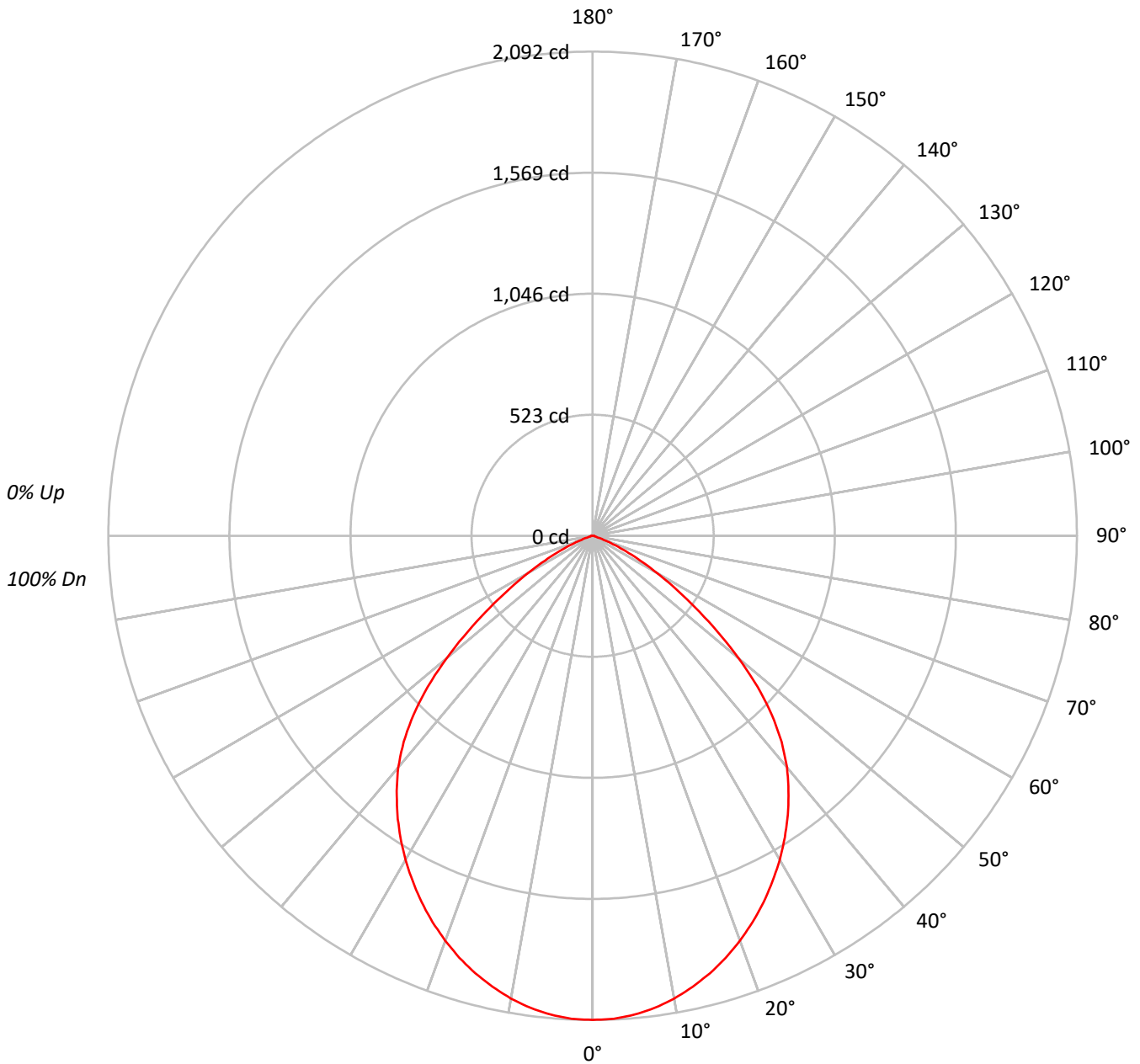
Lumens per Lamp: N/A
Luminaire Lumens: 3984.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201845
5°	201163
10°	198953
15°	195520
20°	191141
25°	186035
30°	180170
35°	173236
40°	164500
45°	149556
50°	123481
55°	90925
60°	61714
65°	36142
70°	14275
75°	3206
80°	4167
85°	7196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	4.9
10°-20°	551.1	13.8
20°-30°	803.9	20.2
30°-40°	917.6	23.0
40°-50°	834.2	20.9
50°-60°	492.0	12.4
60°-70°	165.0	4.1
70°-80°	17.2	0.4
80°-90°	6.0	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°	1551.8	39.0
0°-40°	2469.5	62.0
0°-60°	3795.8	95.3
0°-90°	3984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2092	
5°	2077	197
15°	1957	551
25°	1747	804
35°	1471	918
45°	1096	834
55°	540	492
65°	158	165
75°	9	17
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2091.9
2.5°	2088.7
5°	2076.9
7.5°	2057.5
10°	2030.6
12.5°	1996.1
15°	1957.3
17.5°	1912.1
20°	1861.5
22.5°	1806.6
25°	1747.4
27.5°	1682.8
30°	1617.1
32.5°	1545.0
35°	1470.7
37.5°	1390.0
40°	1306.0
42.5°	1208.0
45°	1096.0
47.5°	966.8
50°	822.6
52.5°	678.3
55°	540.5
57.5°	423.1
60°	319.8
62.5°	231.5
65°	158.3
67.5°	96.9
70°	50.6
72.5°	19.4
75°	8.6
77.5°	8.6
80°	7.5
82.5°	6.5
85°	6.5
87.5°	5.4
90°	0.0



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— 0°-180°







(END OF REPORT)