

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: P840394

Luminaire Tested: **LDS4C50D010 EU4509040 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: P840394
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 EU4509040 4LBPSSQMB
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

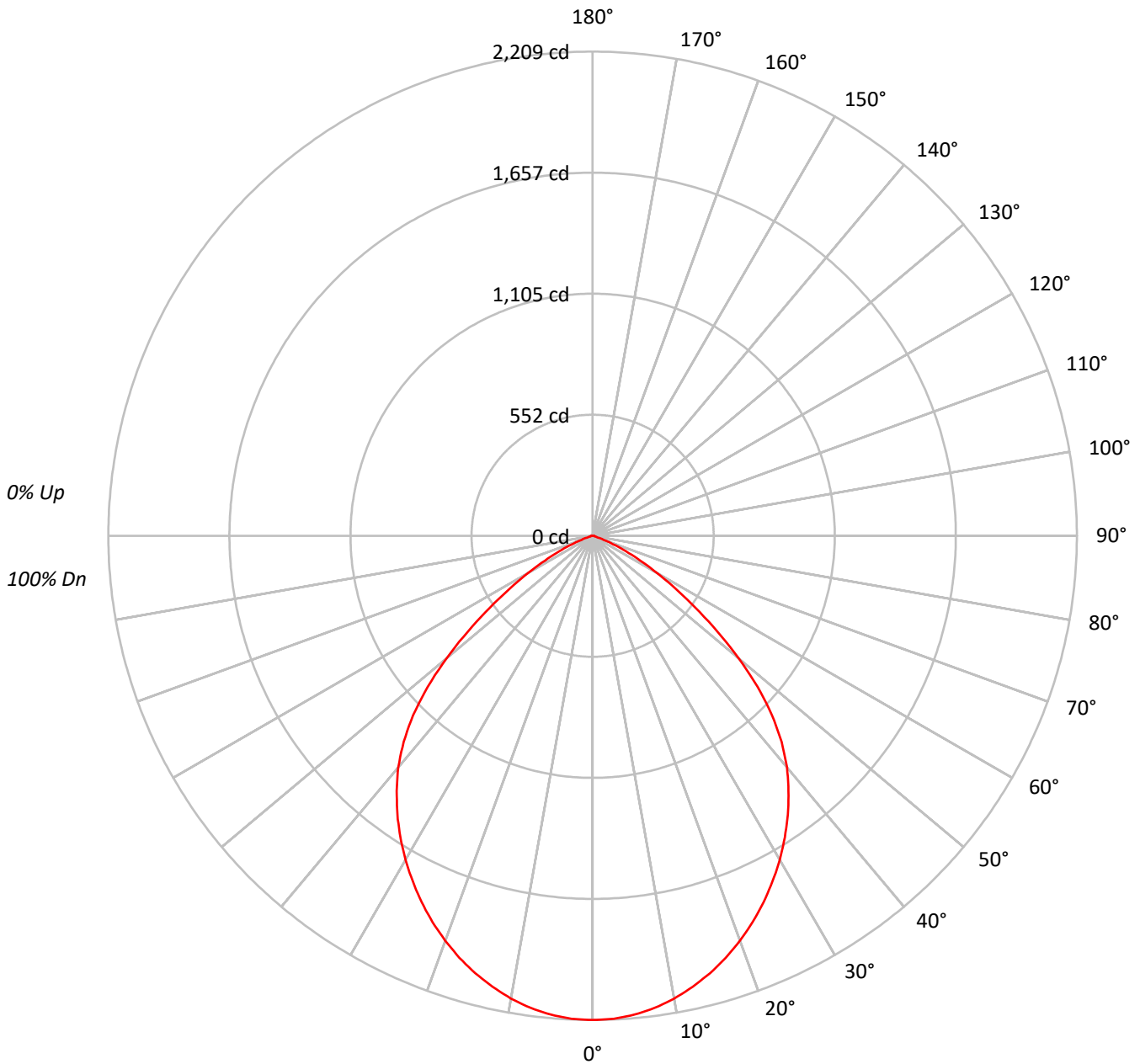
Lumens per Lamp: N/A
Luminaire Lumens: 4207.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213144
5°	212418
10°	210083
15°	206468
20°	201841
25°	196447
30°	190254
35°	182930
40°	173708
45°	157934
50°	130386
55°	96005
60°	65169
65°	38151
70°	15065
75°	3393
80°	4445
85°	7528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	4.9
10°-20°	582.0	13.8
20°-30°	848.9	20.2
30°-40°	969.0	23.0
40°-50°	880.9	20.9
50°-60°	519.6	12.4
60°-70°	174.2	4.1
70°-80°	18.2	0.4
80°-90°	6.3	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°	1638.7	39.0
0°-40°	2607.7	62.0
0°-60°	4008.2	95.3
0°-90°	4207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2209	
5°	2193	208
15°	2067	582
25°	1845	849
35°	1553	969
45°	1157	881
55°	571	520
65°	167	174
75°	9	18
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2209.0
2.5°	2205.6
5°	2193.1
7.5°	2172.6
10°	2144.2
12.5°	2107.8
15°	2066.9
17.5°	2019.2
20°	1965.7
22.5°	1907.7
25°	1845.2
27.5°	1777.0
30°	1707.6
32.5°	1631.5
35°	1553.0
37.5°	1467.8
40°	1379.1
42.5°	1275.6
45°	1157.4
47.5°	1020.9
50°	868.6
52.5°	716.3
55°	570.7
57.5°	446.8
60°	337.7
62.5°	244.4
65°	167.1
67.5°	102.3
70°	53.4
72.5°	20.5
75°	9.1
77.5°	9.1
80°	8.0
82.5°	6.8
85°	6.8
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)