

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: P840329

Luminaire Tested: **LDS4C20D010 EU4209027 4LBPSSQMMS**

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: P840329
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: LDS4C20D010 EU4209027 4LBPSSQMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

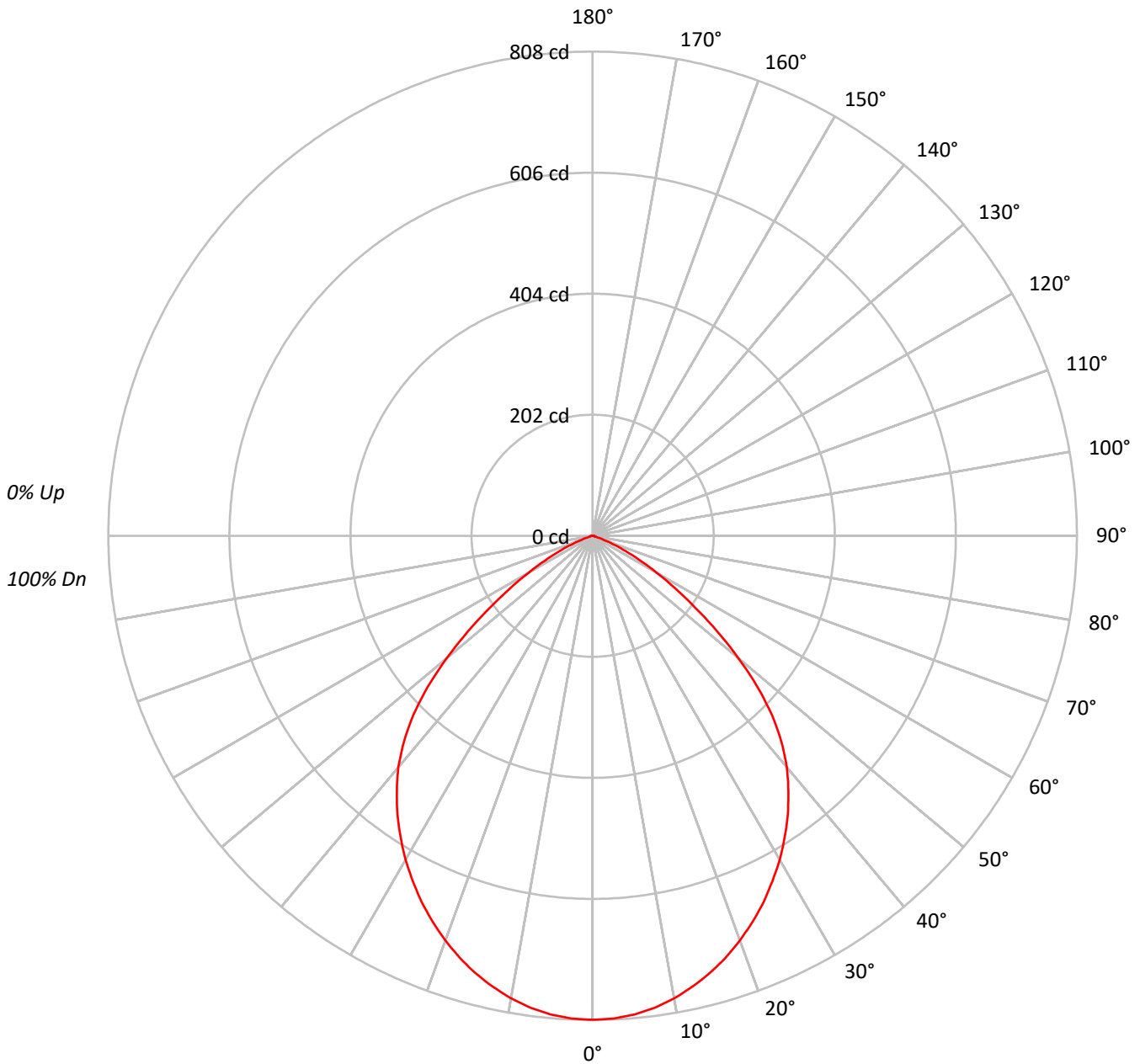
Lumens per Lamp: N/A
Luminaire Lumens: 1537.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	66	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°	77924
5°	77660
10°	76804
15°	75479
20°	73787
25°	71820
30°	69557
35°	66882
40°	63508
45°	57734
50°	47660
55°	35091
60°	23813
65°	13950
70°	5501
75°	1230
80°	1611
85°	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	4.9
10°-20°	212.8	13.8
20°-30°	310.3	20.2
30°-40°	354.3	23.0
40°-50°	322.0	20.9
50°-60°	189.9	12.3
60°-70°	63.7	4.1
70°-80°	6.6	0.4
80°-90°	2.3	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°	599.1	39.0
0°-40°	953.3	62.0
0°-60°	1465.3	95.3
0°-90°	1537.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	808	
5°	802	76
15°	756	213
25°	675	310
35°	568	354
45°	423	322
55°	209	190
65°	61	64
75°	3	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	807.6
2.5°	806.3
5°	801.8
7.5°	794.3
10°	783.9
12.5°	770.6
15°	755.6
17.5°	738.2
20°	718.6
22.5°	697.4
25°	674.6
27.5°	649.6
30°	624.3
32.5°	596.4
35°	567.8
37.5°	536.6
40°	504.2
42.5°	466.3
45°	423.1
47.5°	373.2
50°	317.5
52.5°	261.8
55°	208.6
57.5°	163.3
60°	123.4
62.5°	89.4
65°	61.1
67.5°	37.4
70°	19.5
72.5°	7.5
75°	3.3
77.5°	3.3
80°	2.9
82.5°	2.5
85°	2.5
87.5°	2.1
90°	0.0



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— 0°-180°







(END OF REPORT)