

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: P839799

Luminaire Tested: **LDS4C20D010 EU4209027 4LBPSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839799
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 4LBPSMMS
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

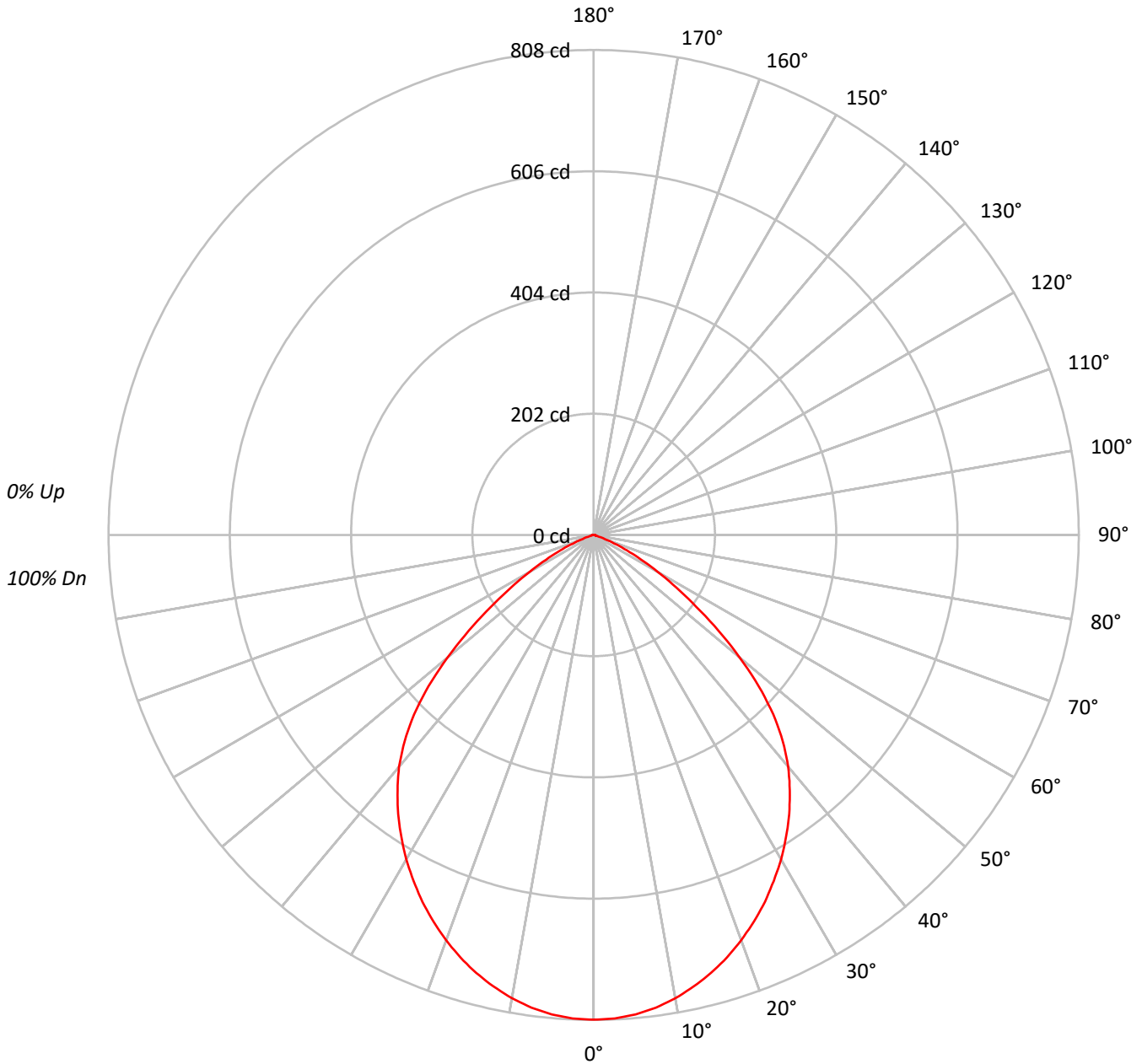
Lumens per Lamp: N/A
Luminaire Lumens: 1537.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99216
5°	98880
10°	97790
15°	96103
20°	93948
25°	91445
30°	88563
35°	85157
40°	80860
45°	73510
50°	60683
55°	44680
60°	30320
65°	17762
70°	7004
75°	1566
80°	2052
85°	3524



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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)