

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: P839800

Luminaire Tested: **LDS4C20D010 EU4209027 4LBSB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839800
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 4LBSB
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

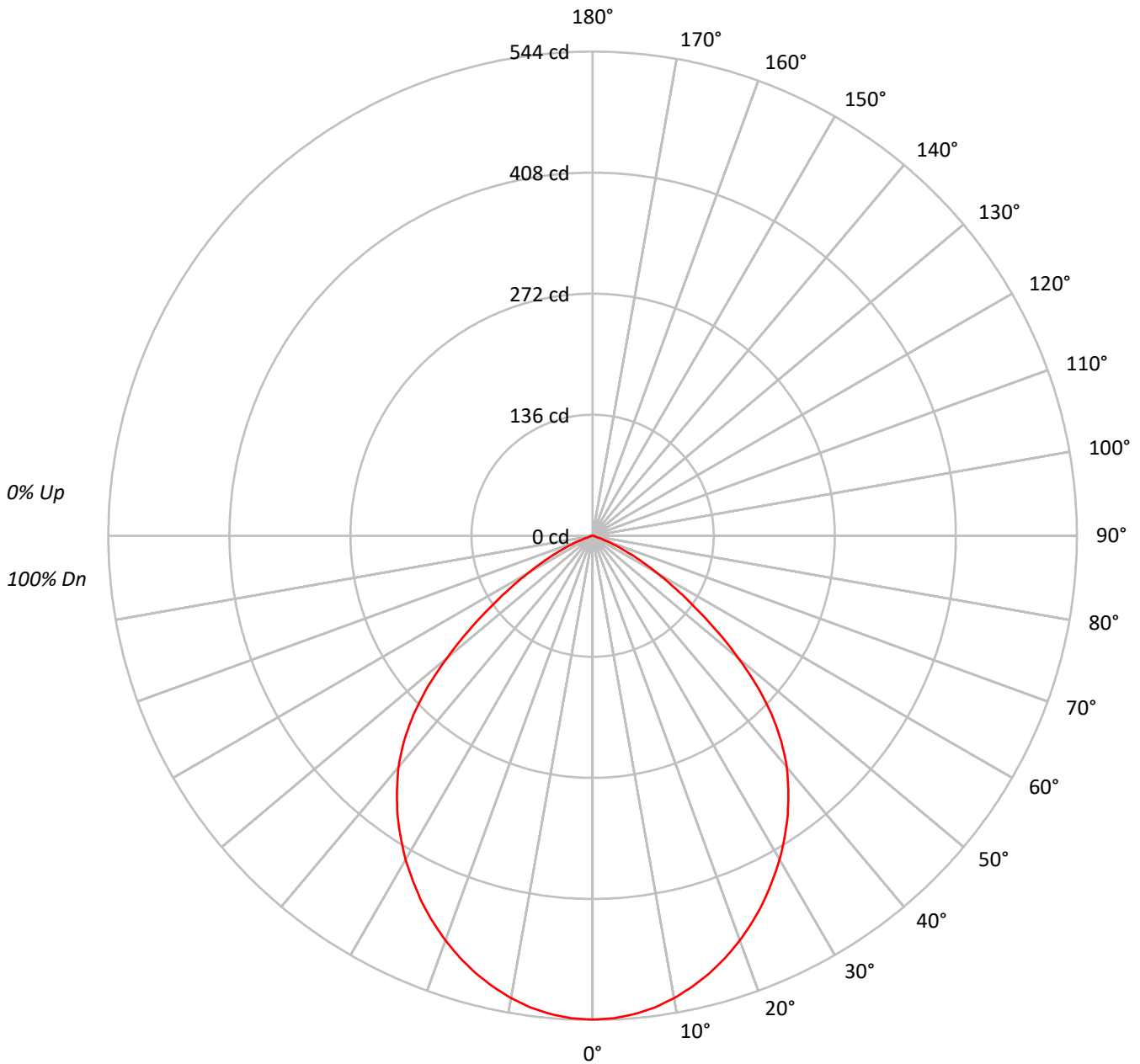
Lumens per Lamp: N/A
Luminaire Lumens: 1035.0 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	66	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°	66771
5°	66533
10°	65805
15°	64675
20°	63225
25°	61541
30°	59595
35°	57306
40°	54415
45°	49464
50°	40844
55°	30072
60°	20418
65°	11948
70°	4706
75°	1044
80°	1415
85°	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	4.9
10°-20°	143.2	13.8
20°-30°	208.9	20.2
30°-40°	238.4	23.0
40°-50°	216.7	20.9
50°-60°	127.8	12.3
60°-70°	42.9	4.1
70°-80°	4.4	0.4
80°-90°	1.6	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°	403.2	39.0
0°-40°	641.6	62.0
0°-60°	986.1	95.3
0°-90°	1035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	544	
5°	540	51
15°	508	143
25°	454	209
35°	382	238
45°	285	217
55°	140	128
65°	41	43
75°	2	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	543.5
2.5°	542.6
5°	539.5
7.5°	534.5
10°	527.5
12.5°	518.6
15°	508.5
17.5°	496.7
20°	483.6
22.5°	469.3
25°	454.0
27.5°	437.2
30°	420.1
32.5°	401.4
35°	382.1
37.5°	361.1
40°	339.3
42.5°	313.8
45°	284.7
47.5°	251.2
50°	213.7
52.5°	176.2
55°	140.4
57.5°	109.9
60°	83.1
62.5°	60.1
65°	41.1
67.5°	25.2
70°	13.1
72.5°	5.0
75°	2.2
77.5°	2.2
80°	2.0
82.5°	1.7
85°	1.7
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)