

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: P839686

Luminaire Tested: **LDS4C100D010 EU41009050 4LBCSMB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839686
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: LDS4C100D010 EU41009050 4LBCSMB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

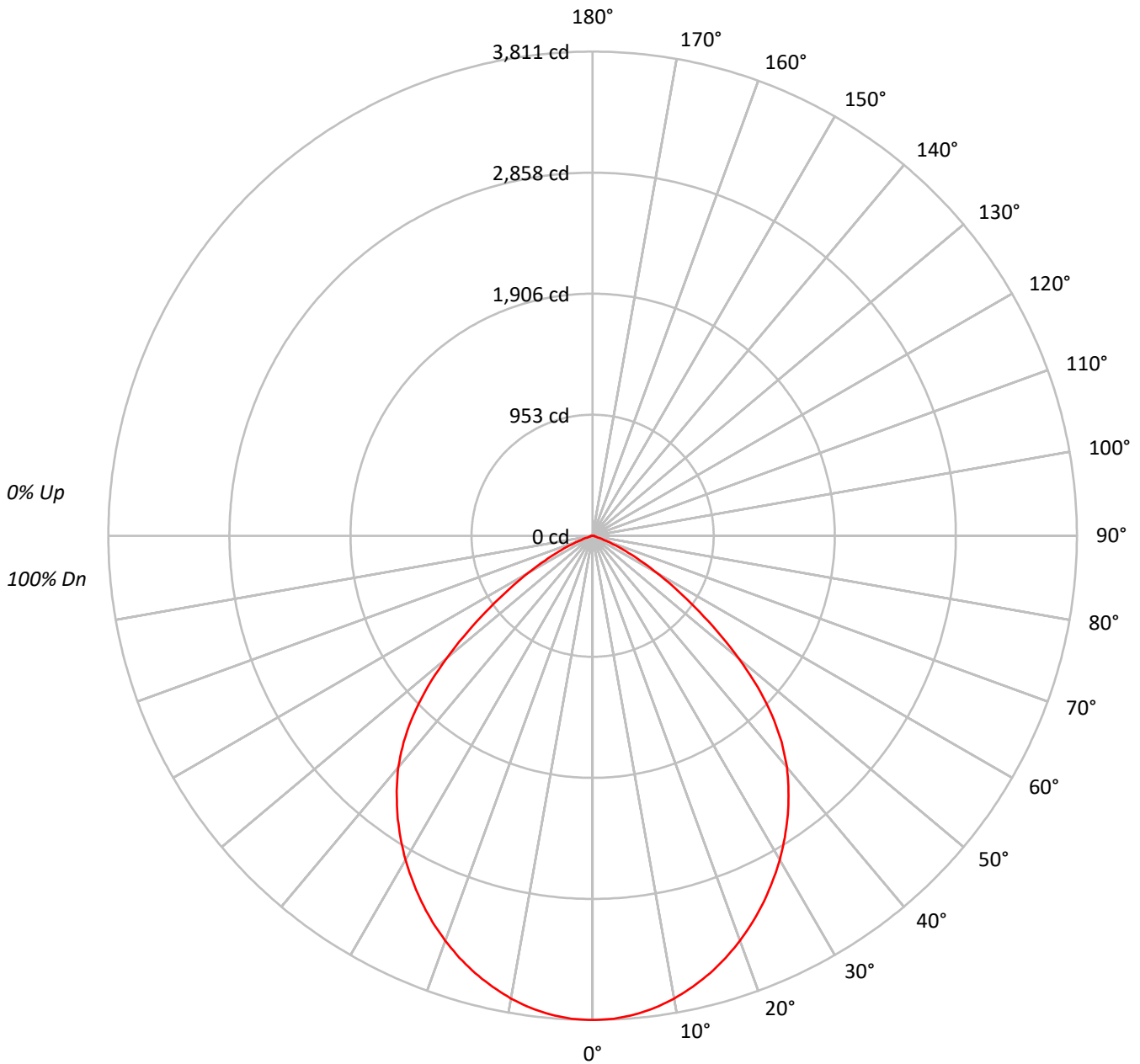
Lumens per Lamp: N/A
Luminaire Lumens: 7258.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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								
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	65	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°	468195
5°	466604
10°	461470
15°	453537
20°	443372
25°	431522
30°	417931
35°	401832
40°	381561
45°	346909
50°	286402
55°	210890
60°	143124
65°	83808
70°	33118
75°	7452
80°	9693
85°	16633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	4.9
10°-20°	1004.1	13.8
20°-30°	1464.6	20.2
30°-40°	1671.7	23.0
40°-50°	1519.8	20.9
50°-60°	896.3	12.3
60°-70°	300.6	4.1
70°-80°	31.4	0.4
80°-90°	11.0	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°	2827.2	39.0
0°-40°	4498.9	62.0
0°-60°	6915.0	95.3
0°-90°	7258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7258.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3811	
5°	3784	358
15°	3566	1004
25°	3183	1465
35°	2679	1672
45°	1997	1520
55°	985	896
65°	288	301
75°	16	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3811.0
2.5°	3805.2
5°	3783.6
7.5°	3748.3
10°	3699.2
12.5°	3636.5
15°	3565.9
17.5°	3483.5
20°	3391.3
22.5°	3291.3
25°	3183.4
27.5°	3065.7
30°	2946.1
32.5°	2814.6
35°	2679.3
37.5°	2532.2
40°	2379.2
42.5°	2200.7
45°	1996.7
47.5°	1761.4
50°	1498.5
52.5°	1235.7
55°	984.6
57.5°	770.8
60°	582.5
62.5°	421.7
65°	288.3
67.5°	176.5
70°	92.2
72.5°	35.3
75°	15.7
77.5°	15.7
80°	13.7
82.5°	11.8
85°	11.8
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)