

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: P839690

Luminaire Tested: **LDS4C100D010 EU41009050 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839690
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 4LBSB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

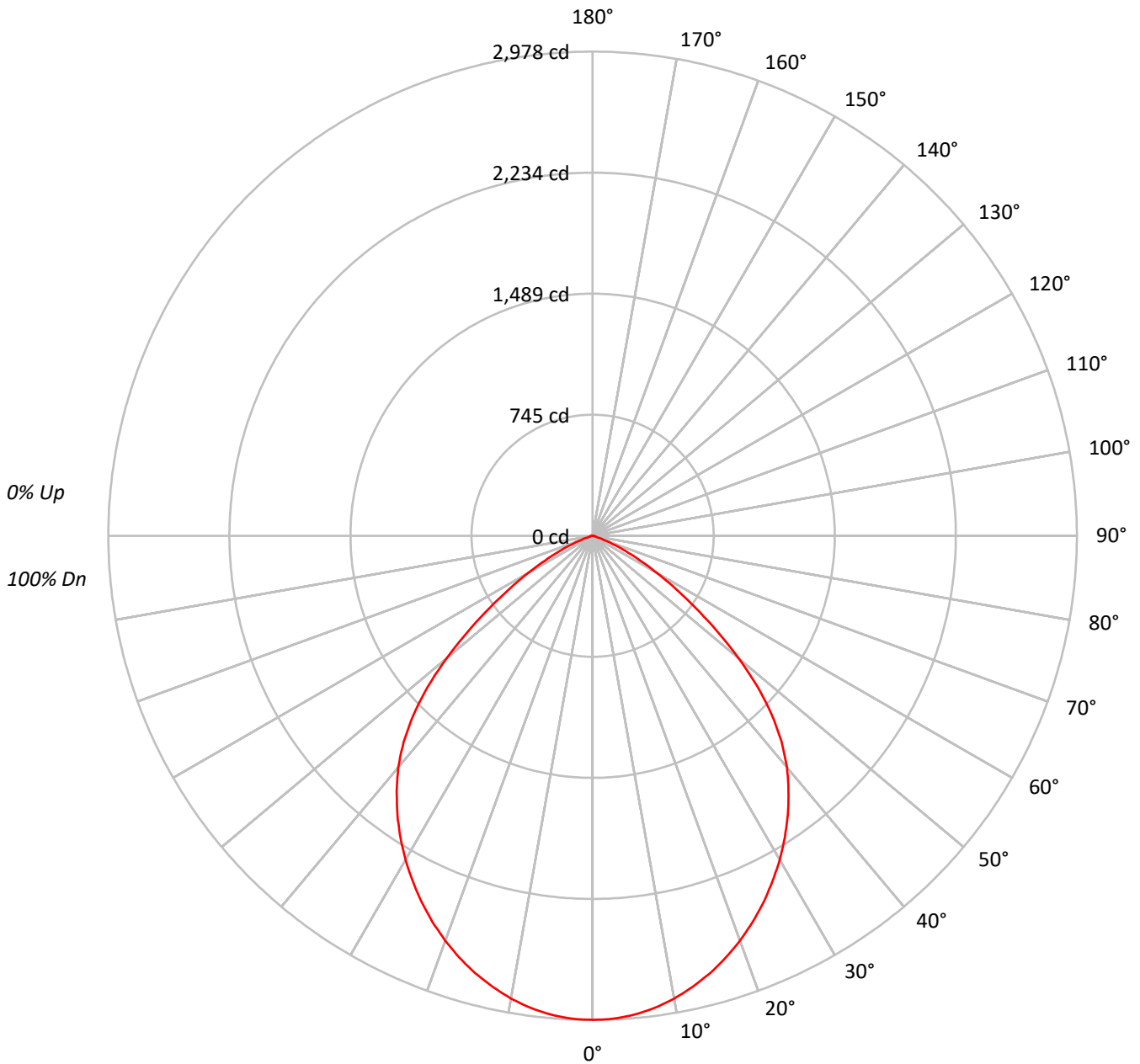
Lumens per Lamp: N/A
Luminaire Lumens: 5671.0 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	65	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°	365821
5°	364579
10°	360574
15°	354369
20°	346429
25°	337163
30°	326545
35°	313976
40°	298135
45°	271053
50°	223790
55°	164775
60°	111846
65°	65494
70°	25862
75°	5838
80°	7570
85°	12968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	4.9
10°-20°	784.5	13.8
20°-30°	1144.3	20.2
30°-40°	1306.2	23.0
40°-50°	1187.5	20.9
50°-60°	700.4	12.3
60°-70°	234.9	4.1
70°-80°	24.5	0.4
80°-90°	8.6	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°	2209.0	39.0
0°-40°	3515.2	62.0
0°-60°	5403.0	95.3
0°-90°	5671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5671.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2978	
5°	2956	280
15°	2786	785
25°	2487	1144
35°	2094	1306
45°	1560	1187
55°	769	700
65°	225	235
75°	12	25
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2977.7
2.5°	2973.1
5°	2956.3
7.5°	2928.7
10°	2890.4
12.5°	2841.3
15°	2786.2
17.5°	2721.8
20°	2649.8
22.5°	2571.6
25°	2487.3
27.5°	2395.4
30°	2301.9
32.5°	2199.2
35°	2093.5
37.5°	1978.5
40°	1859.0
42.5°	1719.5
45°	1560.1
47.5°	1376.2
50°	1170.9
52.5°	965.5
55°	769.3
57.5°	602.3
60°	455.2
62.5°	329.5
65°	225.3
67.5°	137.9
70°	72.0
72.5°	27.6
75°	12.3
77.5°	12.3
80°	10.7
82.5°	9.2
85°	9.2
87.5°	7.7
90°	0.0



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— 0°-180°







(END OF REPORT)