

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: P839590

Luminaire Tested: **LDS4C05D010 EU4059050 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839590
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: LDS4C05D010 EU4059050 4LBSB
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

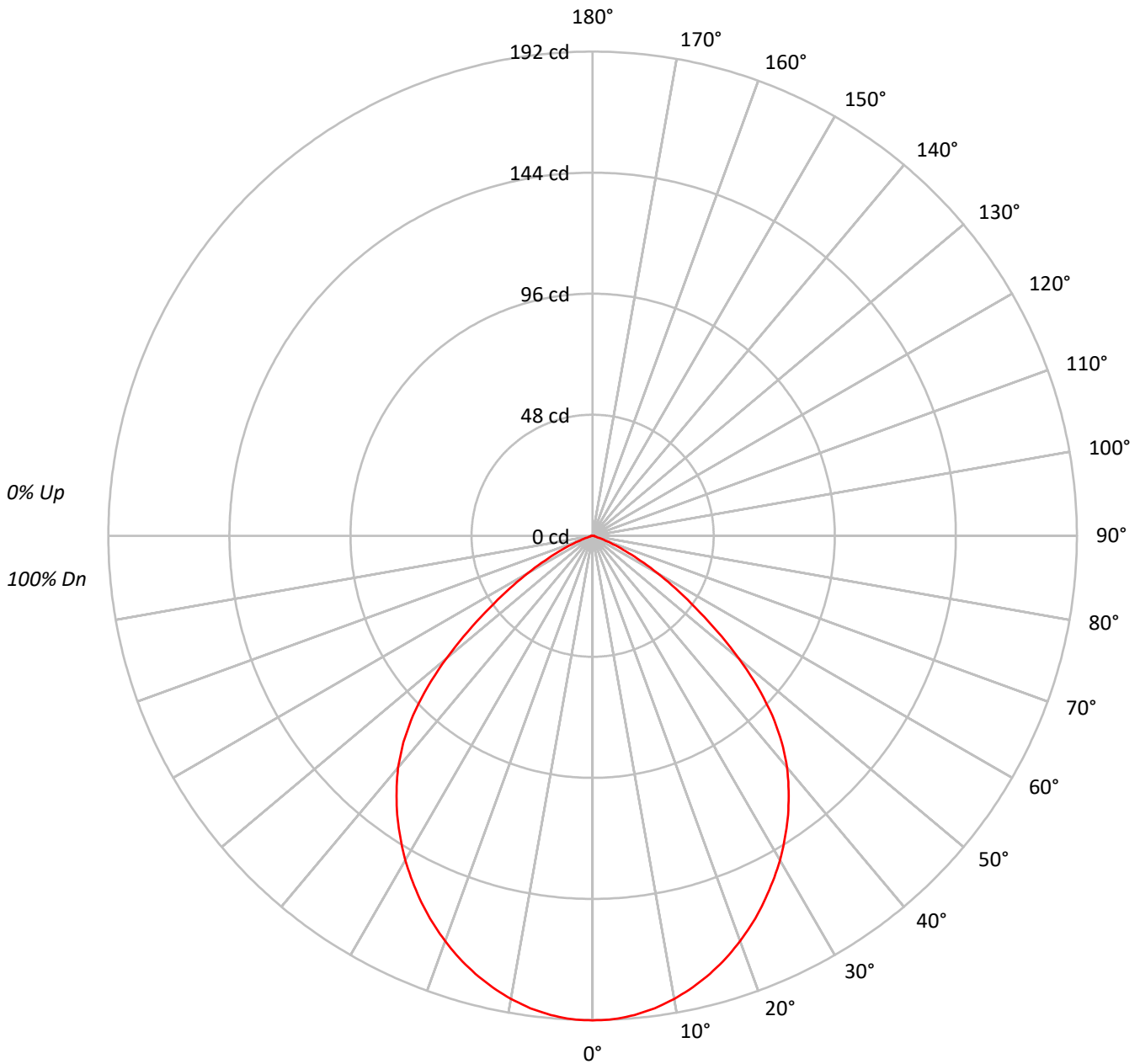
Lumens per Lamp: N/A
Luminaire Lumens: 366.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P839590

CATALOG NUMBER: LDS4C05D010 EU4059050 4LBSB

Luminous Intensity Polar Plot





TEST NUMBER: P839590

CATALOG NUMBER: LDS4C05D010 EU4059050 4LBSB

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	65	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°	23612
5°	23530
10°	23266
15°	22868
20°	22356
25°	21756
30°	21080
35°	20262
40°	19245
45°	17496
50°	14449
55°	10645
60°	7224
65°	4215
70°	1652
75°	380
80°	495
85°	846



TEST NUMBER: P839590

CATALOG NUMBER: LDS4C05D010 EU4059050 4LBSB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	4.9
10°-20°	50.6	13.8
20°-30°	73.9	20.2
30°-40°	84.3	23.0
40°-50°	76.6	20.9
50°-60°	45.2	12.4
60°-70°	15.2	4.1
70°-80°	1.6	0.4
80°-90°	0.6	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°	142.6	38.9
0°-40°	226.9	62.0
0°-60°	348.7	95.3
0°-90°	366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	366.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	192	
5°	191	18
15°	180	51
25°	160	74
35°	135	84
45°	101	77
55°	50	45
65°	14	15
75°	1	2
85°	1	1
90°	0	



TEST NUMBER: P839590

CATALOG NUMBER: LDS4C05D010 EU4059050 4LBSB

CANDELA DISTRIBUTION (FULL):

	0°
0°	192.2
2.5°	191.9
5°	190.8
7.5°	189.0
10°	186.5
12.5°	183.4
15°	179.8
17.5°	175.7
20°	171.0
22.5°	166.0
25°	160.5
27.5°	154.6
30°	148.6
32.5°	141.9
35°	135.1
37.5°	127.7
40°	120.0
42.5°	111.0
45°	100.7
47.5°	88.8
50°	75.6
52.5°	62.3
55°	49.7
57.5°	38.9
60°	29.4
62.5°	21.3
65°	14.5
67.5°	8.9
70°	4.6
72.5°	1.8
75°	0.8
77.5°	0.8
80°	0.7
82.5°	0.6
85°	0.6
87.5°	0.5
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)