

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: P839790

Luminaire Tested: **LDS4C15D010 EU4159050 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839790
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: LDS4C15D010 EU4159050 4LBSB
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

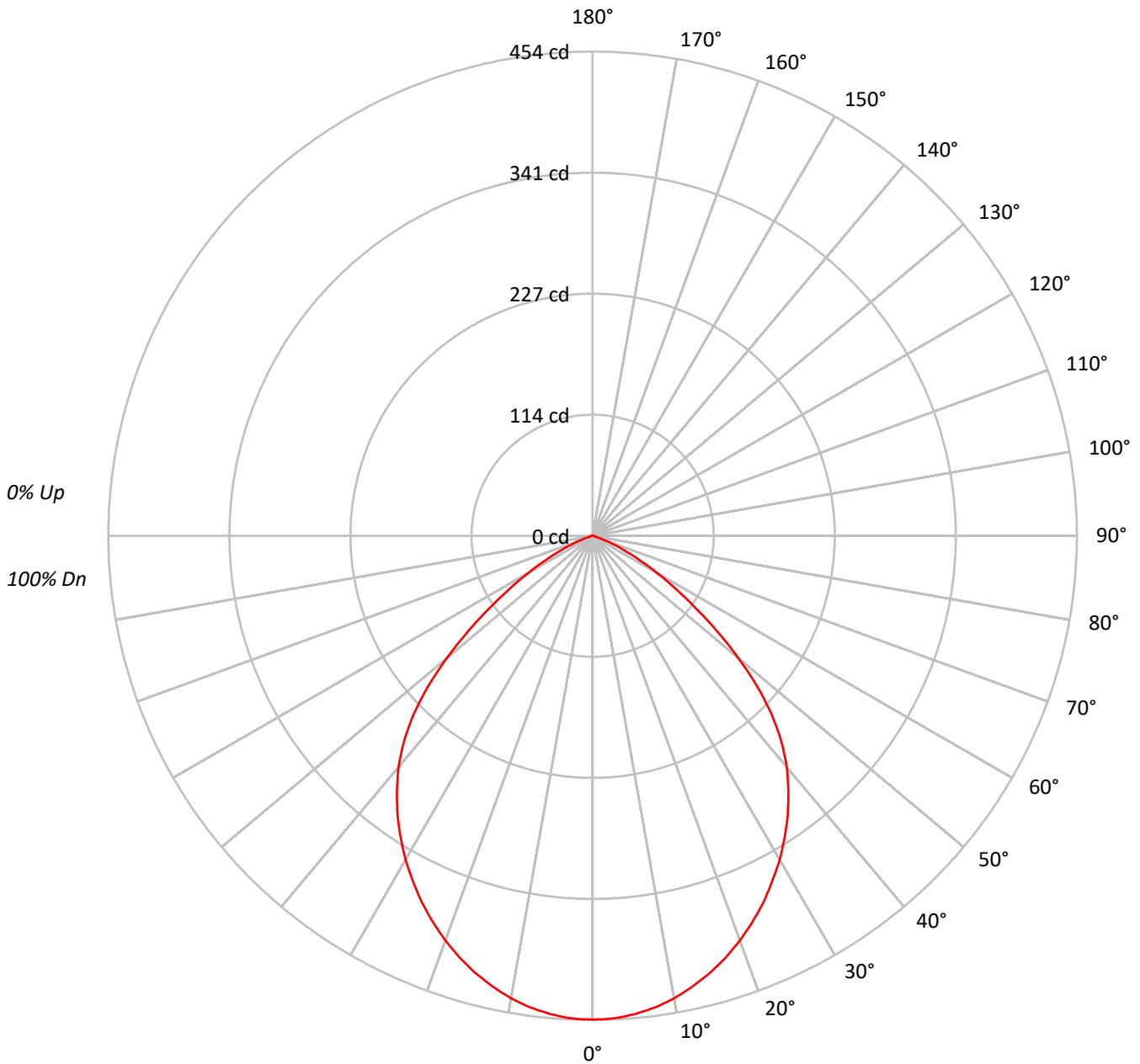
Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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	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°	55739
5°	55545
10°	54939
15°	53991
20°	52779
25°	51375
30°	49750
35°	47827
40°	45418
45°	41298
50°	34097
55°	25103
60°	17027
65°	9971
70°	3951
75°	902
80°	1132
85°	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	4.9
10°-20°	119.5	13.8
20°-30°	174.3	20.2
30°-40°	199.0	23.0
40°-50°	180.9	20.9
50°-60°	106.7	12.4
60°-70°	35.8	4.1
70°-80°	3.8	0.4
80°-90°	1.3	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°	336.6	39.0
0°-40°	535.5	62.0
0°-60°	823.2	95.3
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	454	
5°	450	43
15°	424	120
25°	379	174
35°	319	199
45°	238	181
55°	117	107
65°	34	36
75°	2	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	453.7
2.5°	453.0
5°	450.4
7.5°	446.2
10°	440.4
12.5°	432.9
15°	424.5
17.5°	414.7
20°	403.7
22.5°	391.8
25°	379.0
27.5°	364.9
30°	350.7
32.5°	335.1
35°	318.9
37.5°	301.4
40°	283.2
42.5°	262.0
45°	237.7
47.5°	209.7
50°	178.4
52.5°	147.1
55°	117.2
57.5°	91.8
60°	69.3
62.5°	50.2
65°	34.3
67.5°	21.0
70°	11.0
72.5°	4.2
75°	1.9
77.5°	1.9
80°	1.6
82.5°	1.4
85°	1.4
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)