

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: P839760

Luminaire Tested: **LDS4C15D010 EU4159030 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839760
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 EU4159030 4LBSB
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

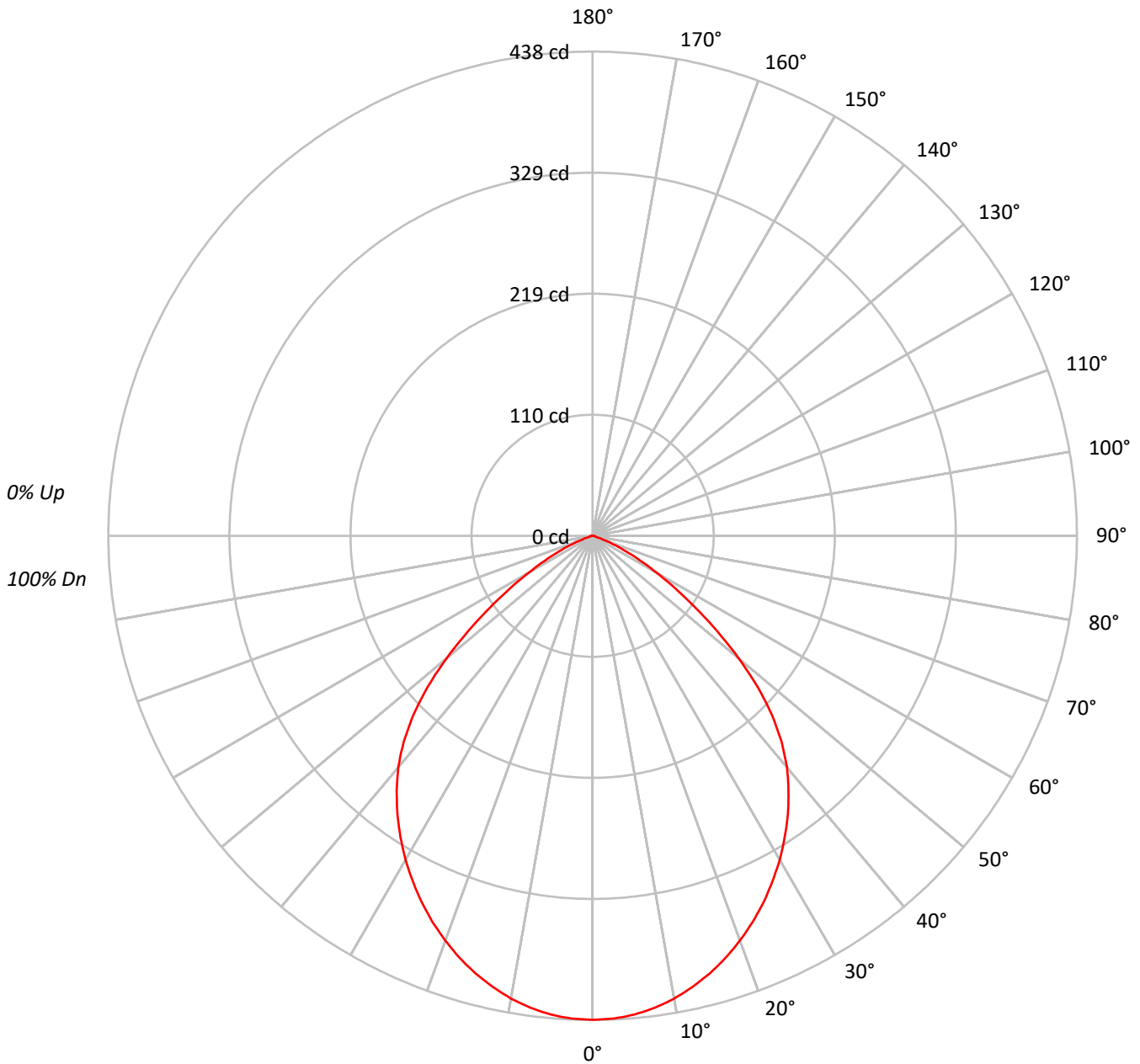
Lumens per Lamp: N/A
Luminaire Lumens: 834.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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			
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°	53798
5°	53621
10°	53031
15°	52109
20°	50949
25°	49586
30°	48019
35°	46178
40°	43846
45°	39856
50°	32912
55°	24225
60°	16438
65°	9622
70°	3808
75°	854
80°	1132
85°	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	4.9
10°-20°	115.4	13.8
20°-30°	168.3	20.2
30°-40°	192.1	23.0
40°-50°	174.6	20.9
50°-60°	103.0	12.3
60°-70°	34.5	4.1
70°-80°	3.6	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°	324.9	39.0
0°-40°	517.0	62.0
0°-60°	794.6	95.3
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	438	
5°	435	41
15°	410	115
25°	366	168
35°	308	192
45°	229	175
55°	113	103
65°	33	35
75°	2	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	437.9
2.5°	437.2
5°	434.8
7.5°	430.7
10°	425.1
12.5°	417.9
15°	409.7
17.5°	400.3
20°	389.7
22.5°	378.2
25°	365.8
27.5°	352.3
30°	338.5
32.5°	323.4
35°	307.9
37.5°	291.0
40°	273.4
42.5°	252.9
45°	229.4
47.5°	202.4
50°	172.2
52.5°	142.0
55°	113.1
57.5°	88.6
60°	66.9
62.5°	48.5
65°	33.1
67.5°	20.3
70°	10.6
72.5°	4.1
75°	1.8
77.5°	1.8
80°	1.6
82.5°	1.4
85°	1.4
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)