

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: P839782

Luminaire Tested: **LDS4C15D010 EU4159040 4LBSH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C15D010 EU4159040 4LBSH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

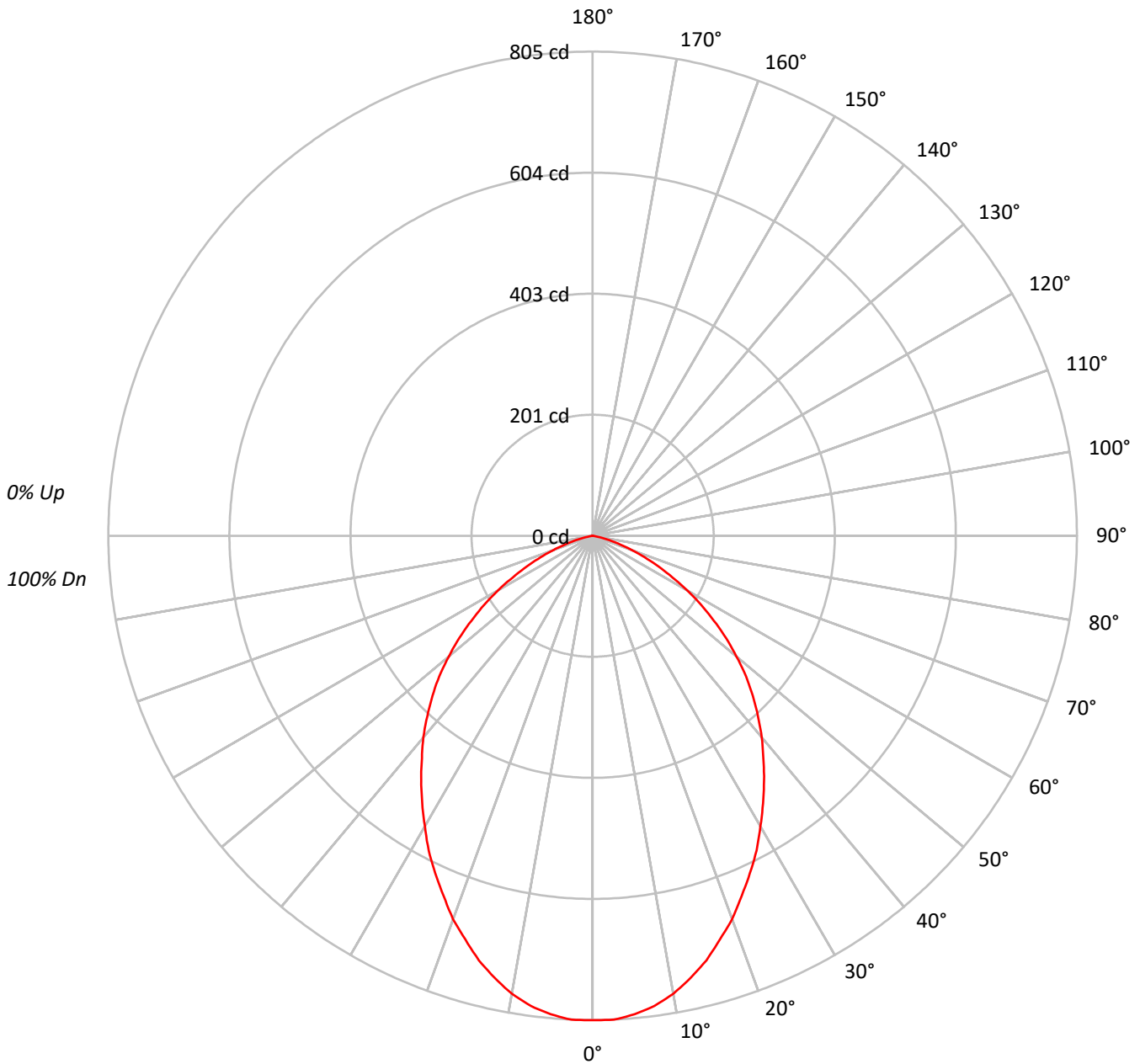
Lumens per Lamp: N/A
Luminaire Lumens: 1540.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P839782

CATALOG NUMBER: LDS4C15D010 EU4159040 4LBSH

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98946
5°	98486
10°	96456
15°	92948
20°	88666
25°	83894
30°	79129
35°	74508
40°	70164
45°	65396
50°	59631
55°	52669
60°	44571
65°	35000
70°	24964
75°	13670
80°	2405
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	4.9
10°-20°	205.1	13.3
20°-30°	284.8	18.5
30°-40°	310.7	20.2
40°-50°	289.9	18.8
50°-60°	220.0	14.3
60°-70°	120.5	7.8
70°-80°	33.2	2.2
80°-90°	0.5	0.0
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°	565.3	36.7
0°-40°	876.0	56.9
0°-60°	1385.9	90.0
0°-90°	1540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	805	
5°	799	75
15°	731	205
25°	619	285
35°	497	311
45°	376	290
55°	246	220
65°	120	120
75°	29	33
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	805.4
2.5°	805.4
5°	798.6
7.5°	788.5
10°	773.2
12.5°	752.9
15°	730.8
17.5°	703.7
20°	678.2
22.5°	647.7
25°	618.9
27.5°	590.1
30°	557.8
32.5°	527.3
35°	496.8
37.5°	466.3
40°	437.5
42.5°	406.9
45°	376.4
47.5°	345.9
50°	312.0
52.5°	279.8
55°	245.9
57.5°	213.6
60°	181.4
62.5°	149.2
65°	120.4
67.5°	93.2
70°	69.5
72.5°	47.5
75°	28.8
77.5°	13.6
80°	3.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)