

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: P839780

Luminaire Tested: **LDS4C15D010 EU4159040 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839780
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 EU4159040 4LBSB
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

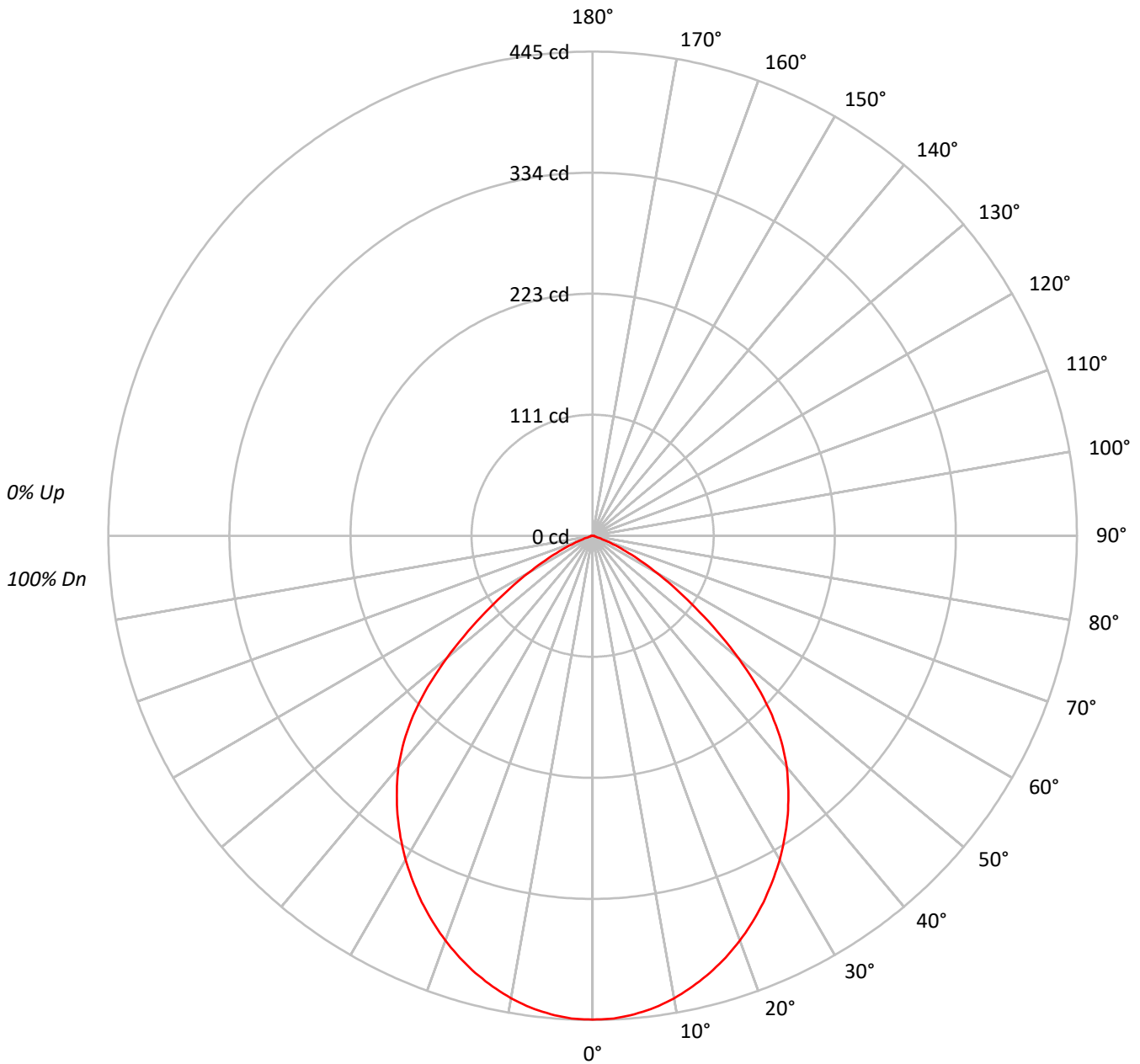
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 53.6 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): 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	66	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°	54633
5°	54447
10°	53854
15°	52923
20°	51746
25°	50358
30°	48771
35°	46898
40°	44536
45°	40482
50°	33428
55°	24610
60°	16708
65°	9767
70°	3879
75°	854
80°	1132
85°	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	4.9
10°-20°	117.2	13.8
20°-30°	170.9	20.2
30°-40°	195.1	23.0
40°-50°	177.3	20.9
50°-60°	104.6	12.4
60°-70°	35.1	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°	329.9	39.0
0°-40°	525.0	62.0
0°-60°	807.0	95.3
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	445	
5°	442	42
15°	416	117
25°	372	171
35°	313	195
45°	233	177
55°	115	105
65°	34	35
75°	2	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	444.7
2.5°	444.1
5°	441.5
7.5°	437.4
10°	431.7
12.5°	424.4
15°	416.1
17.5°	406.5
20°	395.8
22.5°	384.1
25°	371.5
27.5°	357.8
30°	343.8
32.5°	328.5
35°	312.7
37.5°	295.5
40°	277.7
42.5°	256.8
45°	233.0
47.5°	205.5
50°	174.9
52.5°	144.2
55°	114.9
57.5°	90.0
60°	68.0
62.5°	49.2
65°	33.6
67.5°	20.6
70°	10.8
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)