

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: P839783

Luminaire Tested: **LDS4C15D010 EU4159040 4LBSLI**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C15D010 EU4159040 4LBSLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

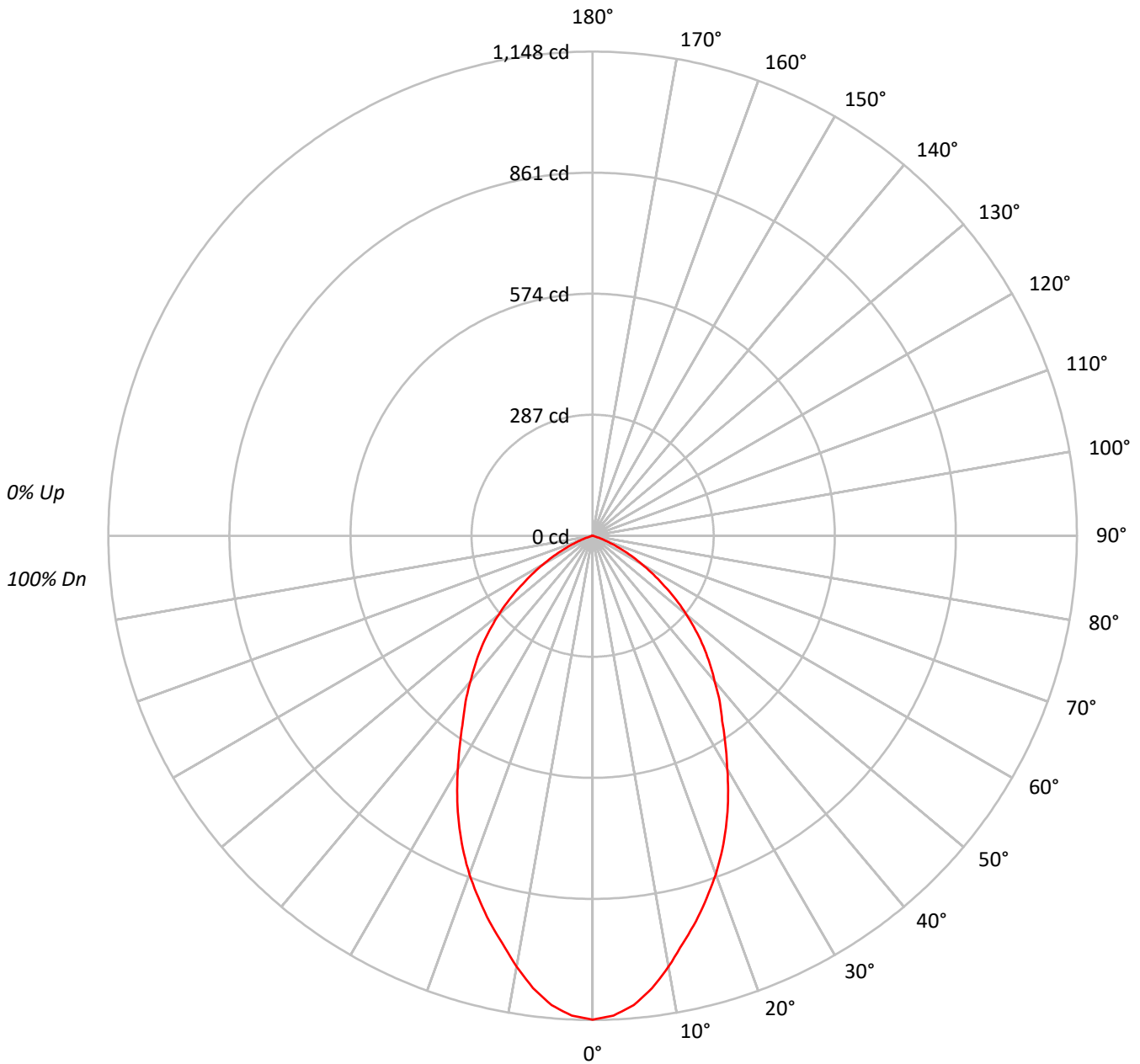
Lumens per Lamp: N/A
Luminaire Lumens: 1607.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140974
5°	137776
10°	129377
15°	120370
20°	111637
25°	101774
30°	90605
35°	80312
40°	72184
45°	64597
50°	55427
55°	44573
60°	33220
65°	21221
70°	10237
75°	1709
80°	1273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	6.5
10°-20°	265.3	16.5
20°-30°	343.9	21.4
30°-40°	336.9	21.0
40°-50°	285.6	17.8
50°-60°	187.2	11.6
60°-70°	75.3	4.7
70°-80°	8.6	0.5
80°-90°	0.2	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°	713.2	44.4
0°-40°	1050.2	65.3
0°-60°	1522.9	94.8
0°-90°	1607.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1148	
5°	1117	104
15°	946	265
25°	751	344
35°	536	337
45°	372	286
55°	208	187
65°	73	75
75°	4	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1147.5
2.5°	1138.5
5°	1117.2
7.5°	1081.6
10°	1037.1
12.5°	989.1
15°	946.4
17.5°	900.2
20°	853.9
22.5°	804.1
25°	750.8
27.5°	695.6
30°	638.7
32.5°	585.3
35°	535.5
37.5°	494.6
40°	450.1
42.5°	410.9
45°	371.8
47.5°	330.9
50°	290.0
52.5°	249.1
55°	208.1
57.5°	170.8
60°	135.2
62.5°	103.2
65°	73.0
67.5°	48.0
70°	28.5
72.5°	12.4
75°	3.6
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)