

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: P839781

Luminaire Tested: **LDS4C15D010 EU4159040 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839781
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 4LBSGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

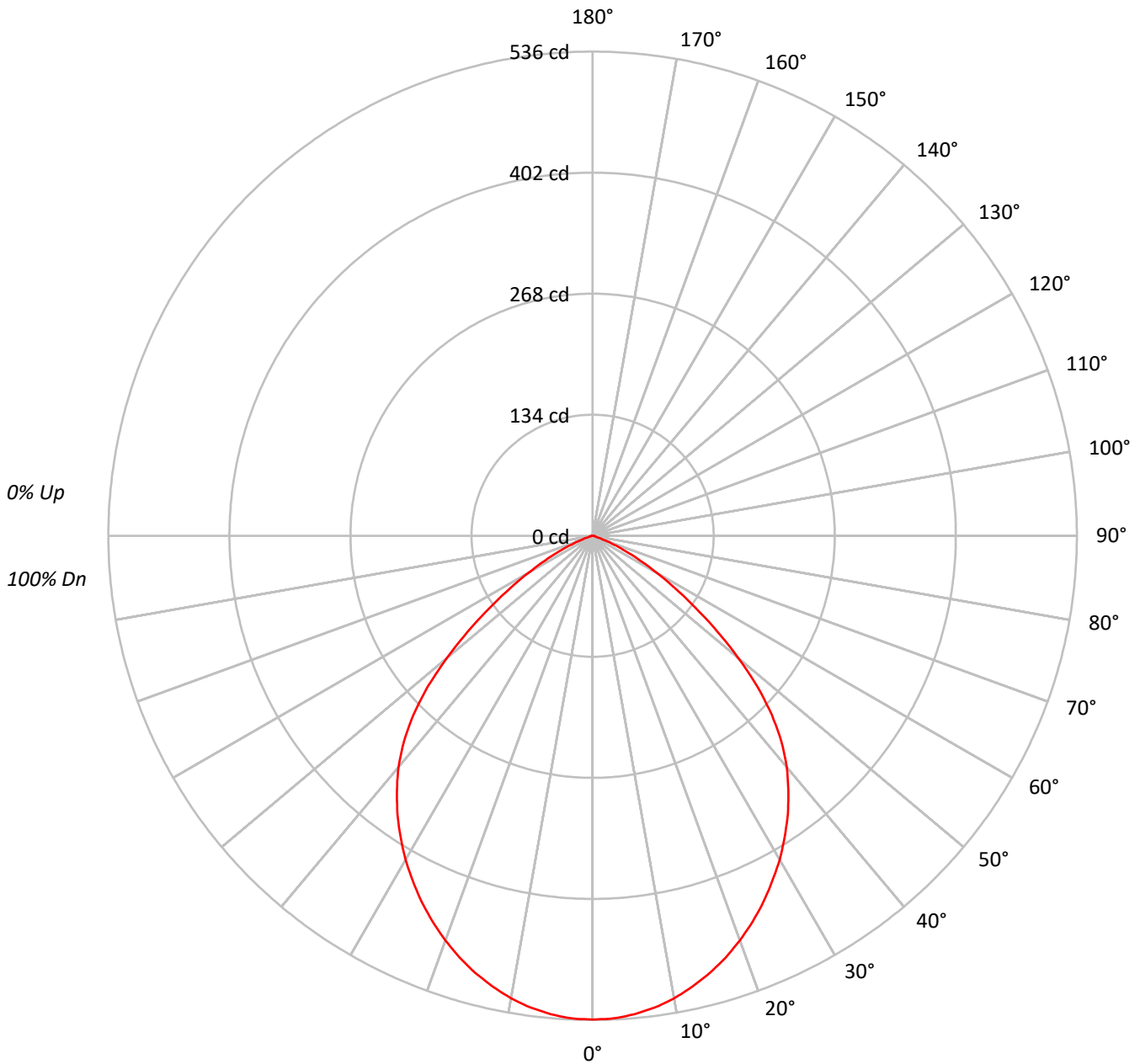
Lumens per Lamp: N/A
Luminaire Lumens: 1020.1 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	65800
5°	65571
10°	64857
15°	63734
20°	62310
25°	60647
30°	58730
35°	56466
40°	53629
45°	48752
50°	40251
55°	29644
60°	20123
65°	11773
70°	4670
75°	1044
80°	1344
85°	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	4.9
10°-20°	141.1	13.8
20°-30°	205.8	20.2
30°-40°	234.9	23.0
40°-50°	213.6	20.9
50°-60°	126.0	12.4
60°-70°	42.3	4.1
70°-80°	4.4	0.4
80°-90°	1.6	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°	397.3	38.9
0°-40°	632.3	62.0
0°-60°	971.8	95.3
0°-90°	1020.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	536	
5°	532	50
15°	501	141
25°	447	206
35°	376	235
45°	281	214
55°	138	126
65°	40	42
75°	2	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	535.6
2.5°	534.8
5°	531.7
7.5°	526.8
10°	519.9
12.5°	511.1
15°	501.1
17.5°	489.6
20°	476.6
22.5°	462.5
25°	447.4
27.5°	430.8
30°	414.0
32.5°	395.6
35°	376.5
37.5°	355.9
40°	334.4
42.5°	309.3
45°	280.6
47.5°	247.5
50°	210.6
52.5°	173.7
55°	138.4
57.5°	108.3
60°	81.9
62.5°	59.3
65°	40.5
67.5°	24.8
70°	13.0
72.5°	5.0
75°	2.2
77.5°	2.2
80°	1.9
82.5°	1.7
85°	1.7
87.5°	1.4
90°	0.0



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— 0°-180°







(END OF REPORT)