

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: P839189

Luminaire Tested: **LD4C100D010 EU41009050 4LBSH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P839189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009050 4LBSH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

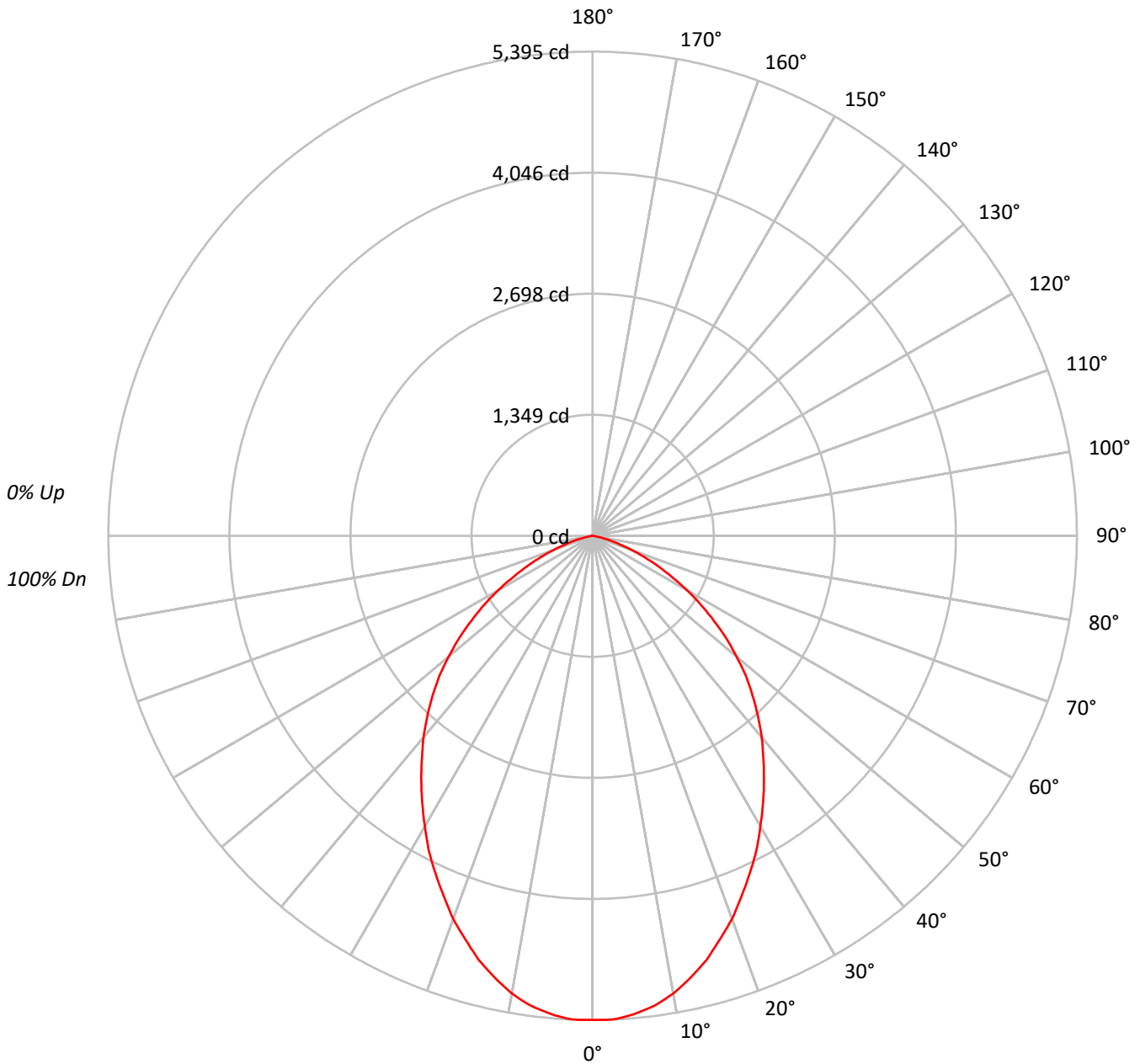
Lumens per Lamp: N/A
Luminaire Lumens: 10316.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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	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°	662819
5°	659752
10°	646136
15°	622645
20°	593982
25°	561965
30°	530099
35°	499121
40°	469959
45°	438088
50°	399473
55°	352790
60°	298608
65°	234446
70°	167315
75°	91706
80°	16131
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.4	4.9
10°-20°	1373.6	13.3
20°-30°	1907.5	18.5
30°-40°	2081.6	20.2
40°-50°	1941.8	18.8
50°-60°	1473.9	14.3
60°-70°	807.0	7.8
70°-80°	222.1	2.2
80°-90°	3.1	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°	3786.5	36.7
0°-40°	5868.1	56.9
0°-60°	9283.8	90.0
0°-90°	10316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10316.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5395	
5°	5350	505
15°	4896	1374
25°	4146	1908
35°	3328	2082
45°	2522	1942
55°	1647	1474
65°	806	807
75°	193	222
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5395.2
2.5°	5395.2
5°	5349.8
7.5°	5281.8
10°	5179.5
12.5°	5043.3
15°	4895.5
17.5°	4713.9
20°	4543.3
22.5°	4338.9
25°	4145.7
27.5°	3952.8
30°	3736.8
32.5°	3532.4
35°	3328.0
37.5°	3123.5
40°	2930.4
42.5°	2725.9
45°	2521.5
47.5°	2317.1
50°	2090.1
52.5°	1874.1
55°	1647.1
57.5°	1431.1
60°	1215.3
62.5°	999.6
65°	806.5
67.5°	624.6
70°	465.8
72.5°	318.1
75°	193.2
77.5°	90.8
80°	22.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)