

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: P839180

Luminaire Tested: **LD4C100D010 EU41009030 4LBSH**

Issue Date: 2/14/2022

**Test Information**

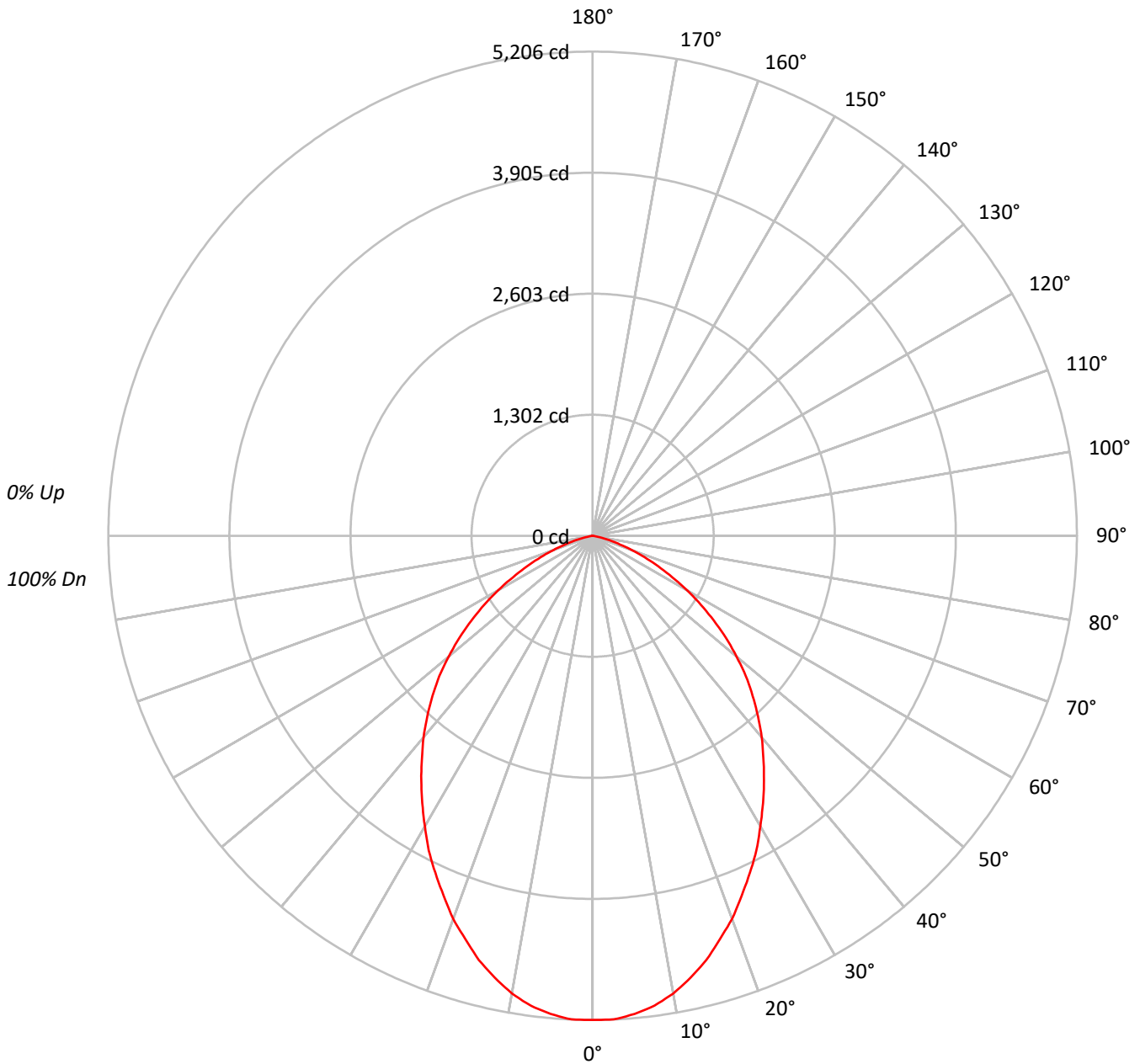
Test Method: LM-79-08  
Report Number: P839180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C100D010 EU41009030 4LBSH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9954.0 lumens  
Efficiency: N/A  
Efficacy: 87.0 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<sub>in</sub>): 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°	639563
5°	636604
10°	623457
15°	600795
20°	573142
25°	542242
30°	511501
35°	481604
40°	453457
45°	422712
50°	385444
55°	340410
60°	288141
65°	226220
70°	161460
75°	88478
80°	15565
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.6	4.9
10°-20°	1325.4	13.3
20°-30°	1840.6	18.5
30°-40°	2008.5	20.2
40°-50°	1873.7	18.8
50°-60°	1422.2	14.3
60°-70°	778.7	7.8
70°-80°	214.3	2.2
80°-90°	3.0	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°	3653.6	36.7
0°-40°	5662.2	56.9
0°-60°	8958.0	90.0
0°-90°	9954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9954.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5206	
5°	5162	488
15°	4724	1325
25°	4000	1841
35°	3211	2009
45°	2433	1874
55°	1589	1422
65°	778	779
75°	186	214
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5205.9
2.5°	5205.9
5°	5162.1
7.5°	5096.5
10°	4997.7
12.5°	4866.3
15°	4723.7
17.5°	4548.5
20°	4383.9
22.5°	4186.6
25°	4000.2
27.5°	3814.1
30°	3605.7
32.5°	3408.5
35°	3211.2
37.5°	3013.9
40°	2827.5
42.5°	2630.3
45°	2433.0
47.5°	2235.8
50°	2016.7
52.5°	1808.3
55°	1589.3
57.5°	1380.9
60°	1172.7
62.5°	964.5
65°	778.2
67.5°	602.7
70°	449.5
72.5°	306.9
75°	186.4
77.5°	87.6
80°	22.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)