

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: P839312

Luminaire Tested: **LD4C50D010 EU4509027 4LBSH**

Issue Date: 2/14/2022



**Test Information**

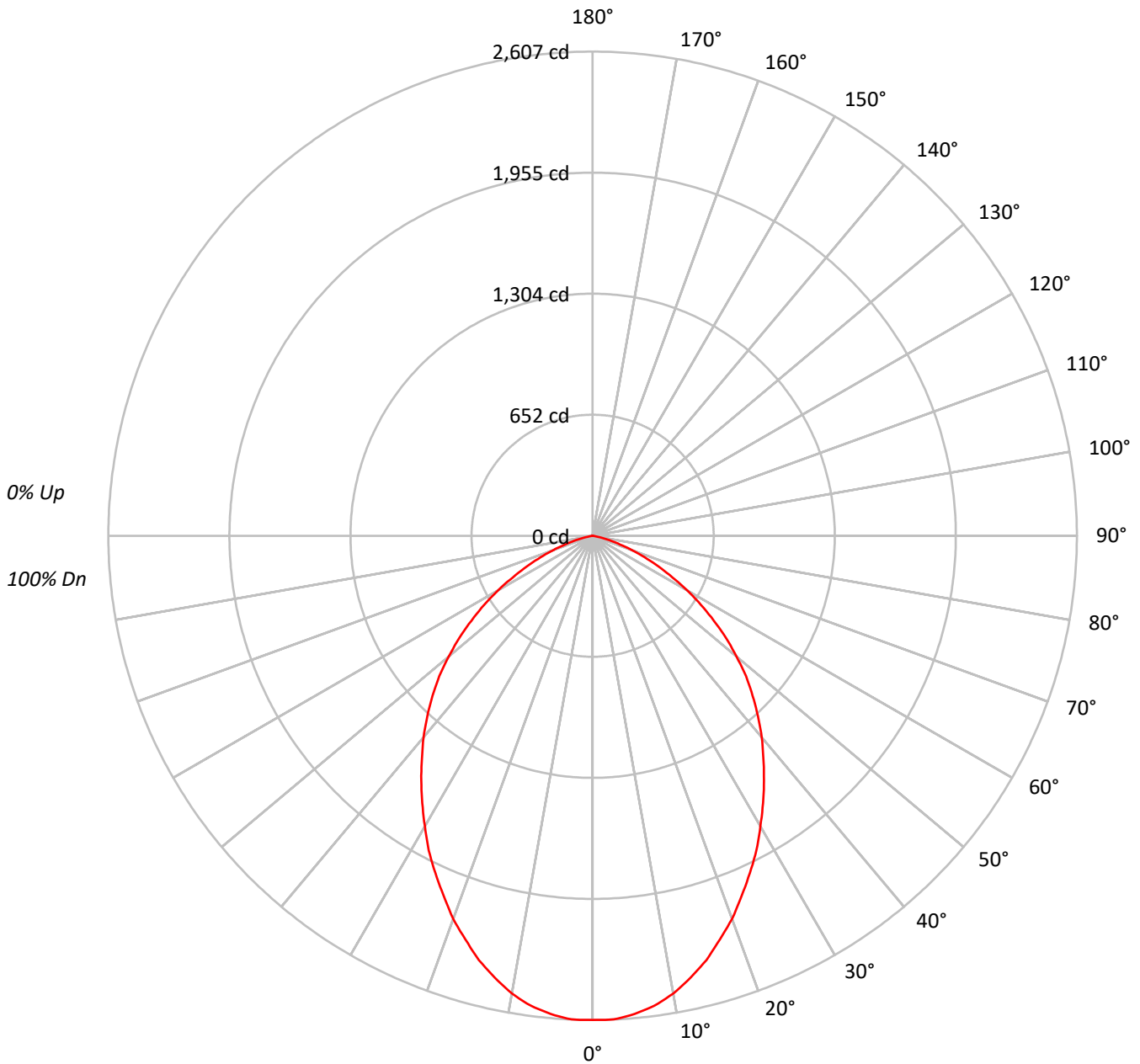
Test Method: LM-79-08  
Report Number: P839312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EU4509027 4LBSH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4985.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 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): 58.4  
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
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°	320291
5°	318814
10°	312233
15°	300887
20°	287035
25°	271555
30°	256169
35°	241192
40°	227089
45°	211703
50°	193037
55°	170473
60°	144304
65°	113284
70°	80856
75°	44287
80°	7782
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.2	4.9
10°-20°	663.8	13.3
20°-30°	921.8	18.5
30°-40°	1005.9	20.2
40°-50°	938.4	18.8
50°-60°	712.2	14.3
60°-70°	390.0	7.8
70°-80°	107.3	2.2
80°-90°	1.5	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°	1829.8	36.7
0°-40°	2835.7	56.9
0°-60°	4486.2	90.0
0°-90°	4985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2607	
5°	2585	244
15°	2366	664
25°	2003	922
35°	1608	1006
45°	1218	938
55°	796	712
65°	390	390
75°	93	107
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2607.1
2.5°	2607.1
5°	2585.2
7.5°	2552.3
10°	2502.9
12.5°	2437.1
15°	2365.7
17.5°	2277.9
20°	2195.5
22.5°	2096.7
25°	2003.3
27.5°	1910.1
30°	1805.8
32.5°	1707.0
35°	1608.2
37.5°	1509.4
40°	1416.0
42.5°	1317.3
45°	1218.5
47.5°	1119.7
50°	1010.0
52.5°	905.6
55°	795.9
57.5°	691.5
60°	587.3
62.5°	483.0
65°	389.7
67.5°	301.8
70°	225.1
72.5°	153.7
75°	93.3
77.5°	43.9
80°	11.0
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)