

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: P839318

Luminaire Tested: **LD4C50D010 EU4509035 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839318  
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 EU4509035 4LBSH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

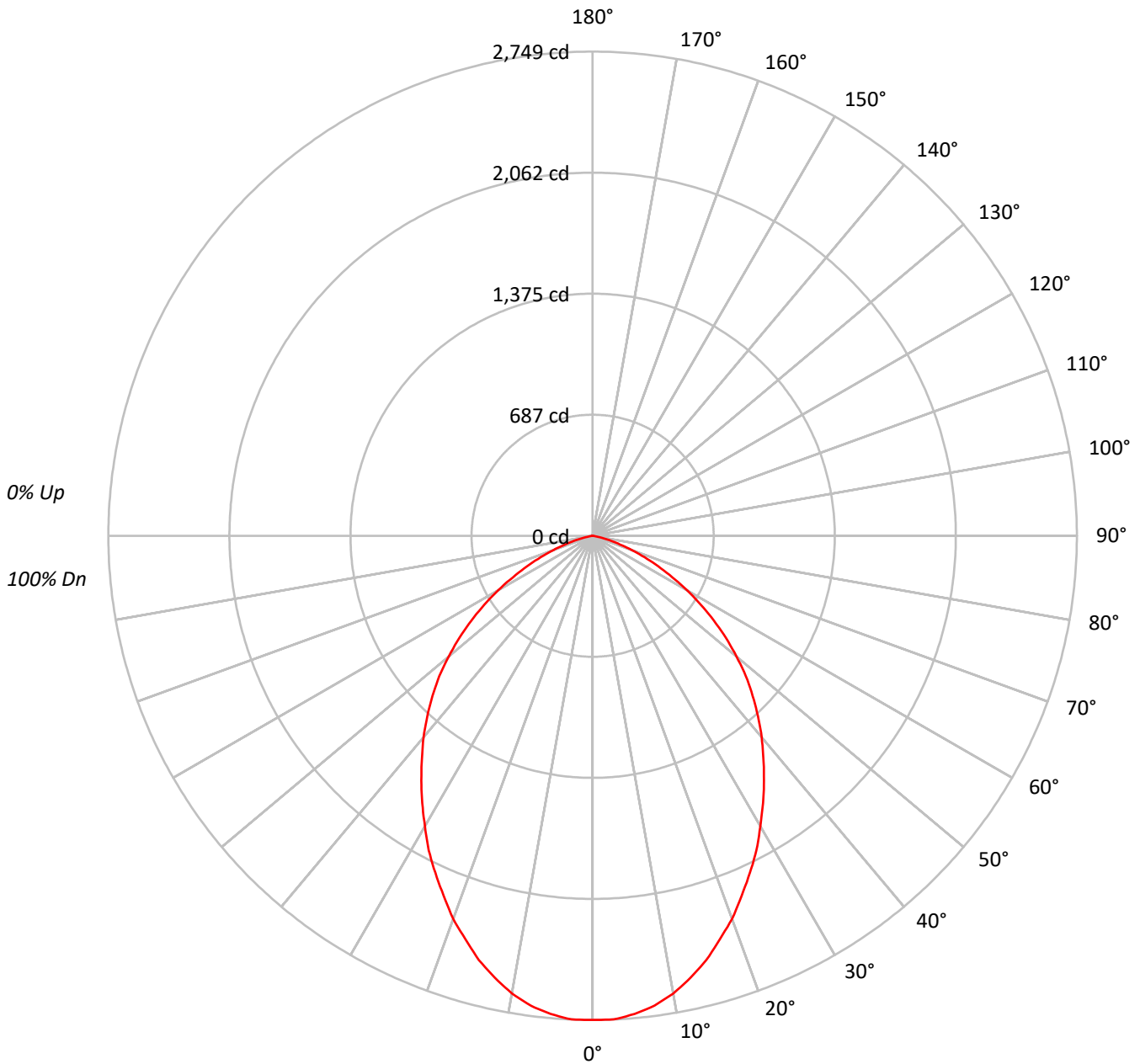
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5256.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 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): 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									
RC	80									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°	337700
5°	336141
10°	329199
15°	317243
20°	302632
25°	286317
30°	270085
35°	254300
40°	239438
45°	223205
50°	203530
55°	179747
60°	152142
65°	119447
70°	85238
75°	46707
80°	8207
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.5	4.9
10°-20°	699.8	13.3
20°-30°	971.9	18.5
30°-40°	1060.6	20.2
40°-50°	989.3	18.8
50°-60°	750.9	14.3
60°-70°	411.2	7.8
70°-80°	113.2	2.2
80°-90°	1.6	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°	1929.2	36.7
0°-40°	2989.8	56.9
0°-60°	4730.1	90.0
0°-90°	5256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2749	
5°	2726	257
15°	2494	700
25°	2112	972
35°	1696	1061
45°	1285	989
55°	839	751
65°	411	411
75°	98	113
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2748.8
2.5°	2748.8
5°	2725.7
7.5°	2691.1
10°	2638.9
12.5°	2569.5
15°	2494.3
17.5°	2401.7
20°	2314.8
22.5°	2210.7
25°	2112.2
27.5°	2014.0
30°	1903.9
32.5°	1799.8
35°	1695.6
37.5°	1591.4
40°	1493.0
42.5°	1388.9
45°	1284.7
47.5°	1180.5
50°	1064.9
52.5°	954.8
55°	839.2
57.5°	729.1
60°	619.2
62.5°	509.3
65°	410.9
67.5°	318.2
70°	237.3
72.5°	162.1
75°	98.4
77.5°	46.3
80°	11.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)