

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: P839414

Luminaire Tested: **LD4C80D010 EU4809050 4LBSH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839414  
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: LD4C80D010 EU4809050 4LBSH  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

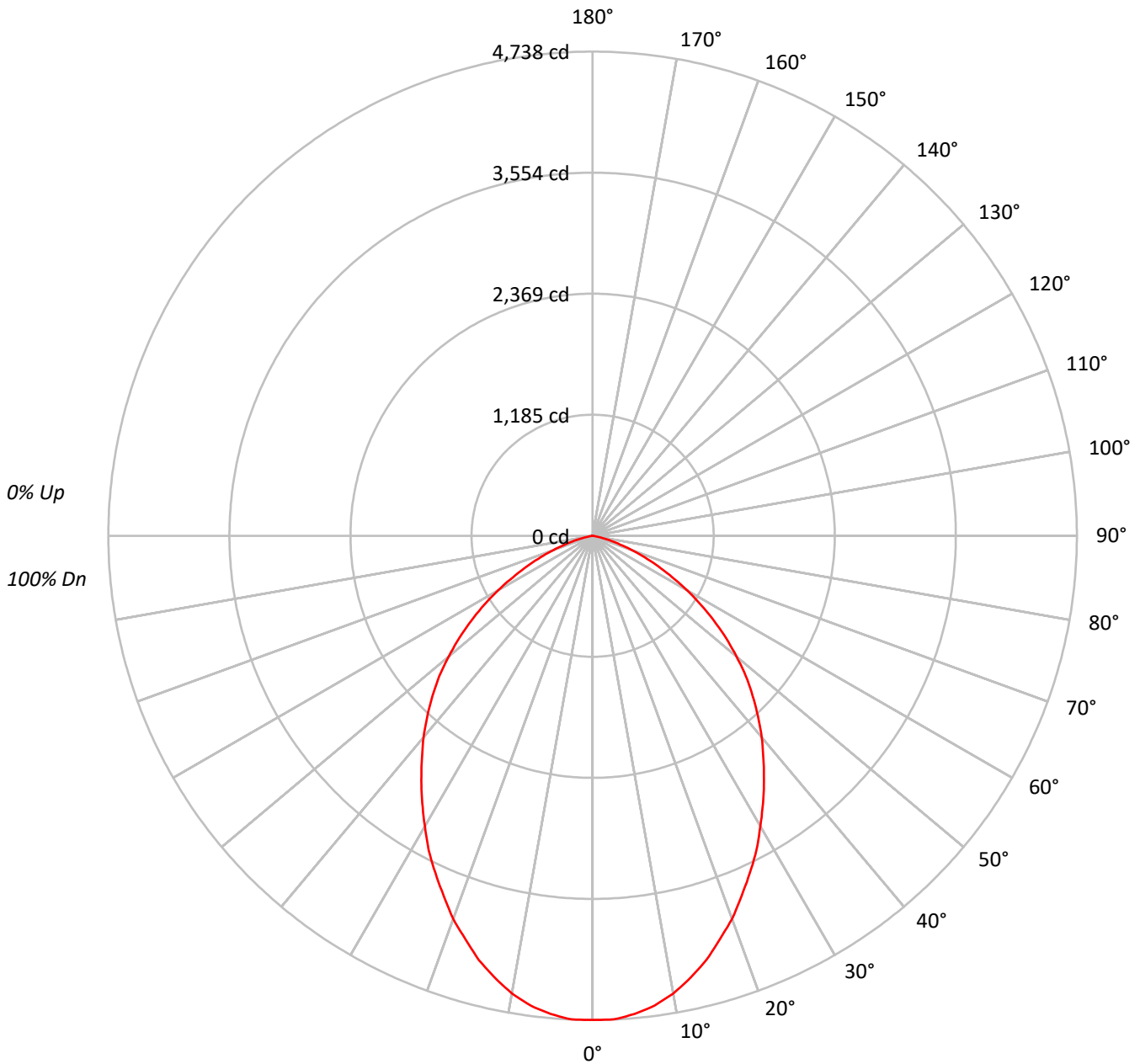
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9059.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 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): 89.5  
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°	582055
5°	579358
10°	567407
15°	546778
20°	521605
25°	493497
30°	465510
35°	438306
40°	412690
45°	384715
50°	350793
55°	309802
60°	262243
65°	205871
70°	146949
75°	80504
80°	14220
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.8	4.9
10°-20°	1206.2	13.3
20°-30°	1675.1	18.5
30°-40°	1827.9	20.2
40°-50°	1705.2	18.8
50°-60°	1294.3	14.3
60°-70°	708.7	7.8
70°-80°	195.0	2.2
80°-90°	2.7	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°	3325.1	36.7
0°-40°	5153.1	56.9
0°-60°	8152.6	90.0
0°-90°	9059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4738	
5°	4698	444
15°	4299	1206
25°	3641	1675
35°	2922	1828
45°	2214	1705
55°	1446	1294
65°	708	709
75°	170	195
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4737.8
2.5°	4737.8
5°	4697.9
7.5°	4638.2
10°	4548.4
12.5°	4428.7
15°	4299.0
17.5°	4139.5
20°	3989.7
22.5°	3810.2
25°	3640.6
27.5°	3471.2
30°	3281.5
32.5°	3102.0
35°	2922.5
37.5°	2742.9
40°	2573.3
42.5°	2393.8
45°	2214.3
47.5°	2034.7
50°	1835.4
52.5°	1645.7
55°	1446.4
57.5°	1256.7
60°	1067.3
62.5°	877.8
65°	708.2
67.5°	548.5
70°	409.1
72.5°	279.3
75°	169.6
77.5°	79.7
80°	20.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)