

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: P840286

Luminaire Tested: **LDS4C05D010 EU4059050 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C05D010 EU4059050 4LBPSSQMB  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

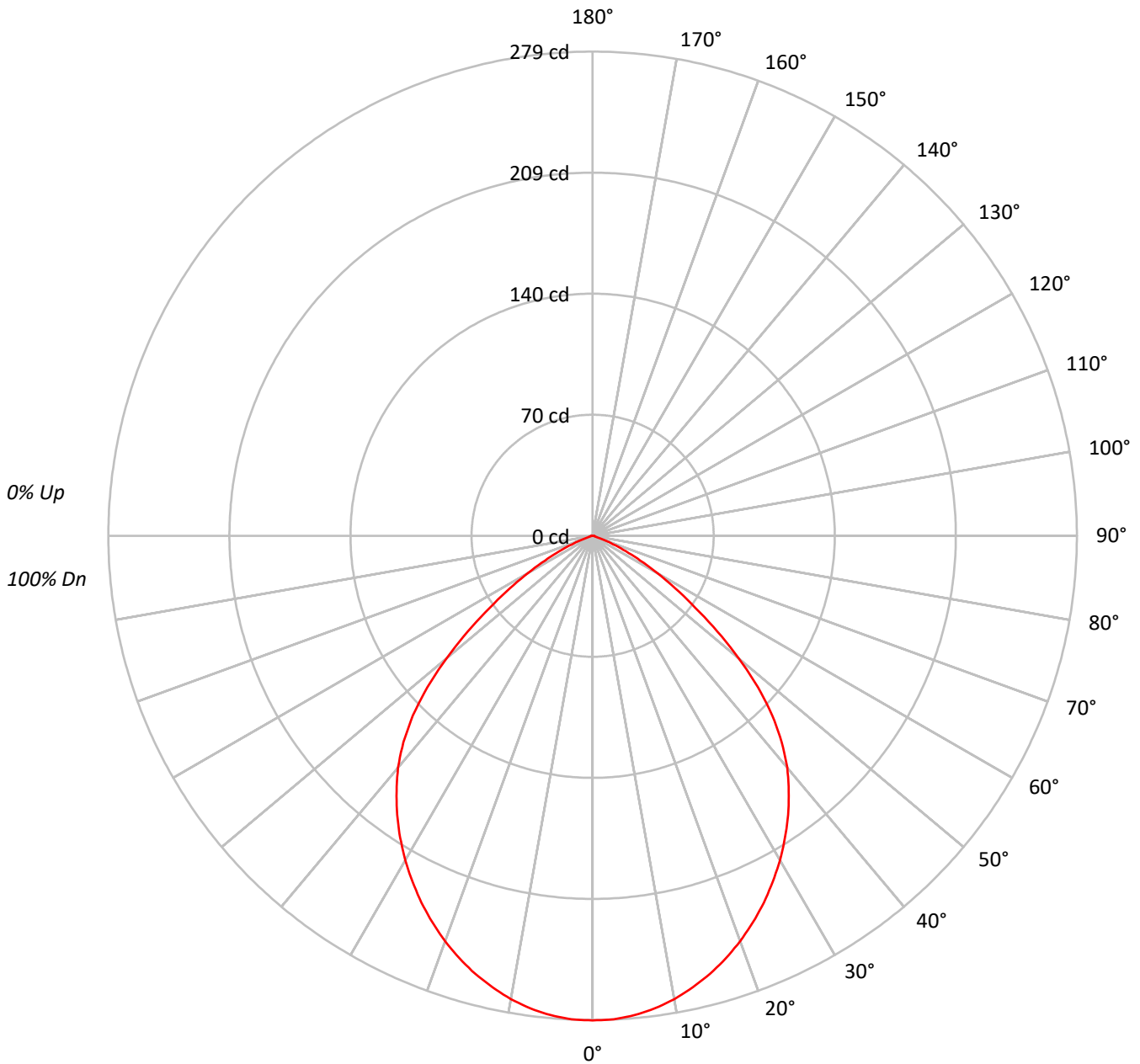
Lumens per Lamp: N/A  
Luminaire Lumens: 532.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	26949
5°	26859
10°	26562
15°	26112
20°	25527
25°	24838
30°	24055
35°	23134
40°	21967
45°	19977
50°	16482
55°	12146
60°	8240
65°	4817
70°	1918
75°	447
80°	556
85°	996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	4.9
10°-20°	73.6	13.8
20°-30°	107.3	20.2
30°-40°	122.5	23.0
40°-50°	111.4	20.9
50°-60°	65.7	12.4
60°-70°	22.0	4.1
70°-80°	2.3	0.4
80°-90°	0.8	0.2
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°	207.2	38.9
0°-40°	329.7	62.0
0°-60°	506.8	95.3
0°-90°	532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	279	
5°	277	26
15°	261	74
25°	233	107
35°	196	123
45°	146	111
55°	72	66
65°	21	22
75°	1	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	279.3
2.5°	278.9
5°	277.3
7.5°	274.7
10°	271.1
12.5°	266.5
15°	261.4
17.5°	255.3
20°	248.6
22.5°	241.2
25°	233.3
27.5°	224.7
30°	215.9
32.5°	206.3
35°	196.4
37.5°	185.6
40°	174.4
42.5°	161.3
45°	146.4
47.5°	129.1
50°	109.8
52.5°	90.6
55°	72.2
57.5°	56.5
60°	42.7
62.5°	30.9
65°	21.1
67.5°	12.9
70°	6.8
72.5°	2.6
75°	1.2
77.5°	1.2
80°	1.0
82.5°	0.9
85°	0.9
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)