

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: P840452

Luminaire Tested: **LDS4C80D010 EU4809035 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: P840452  
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: LDS4C80D010 EU4809035 4LBPSSQMB  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

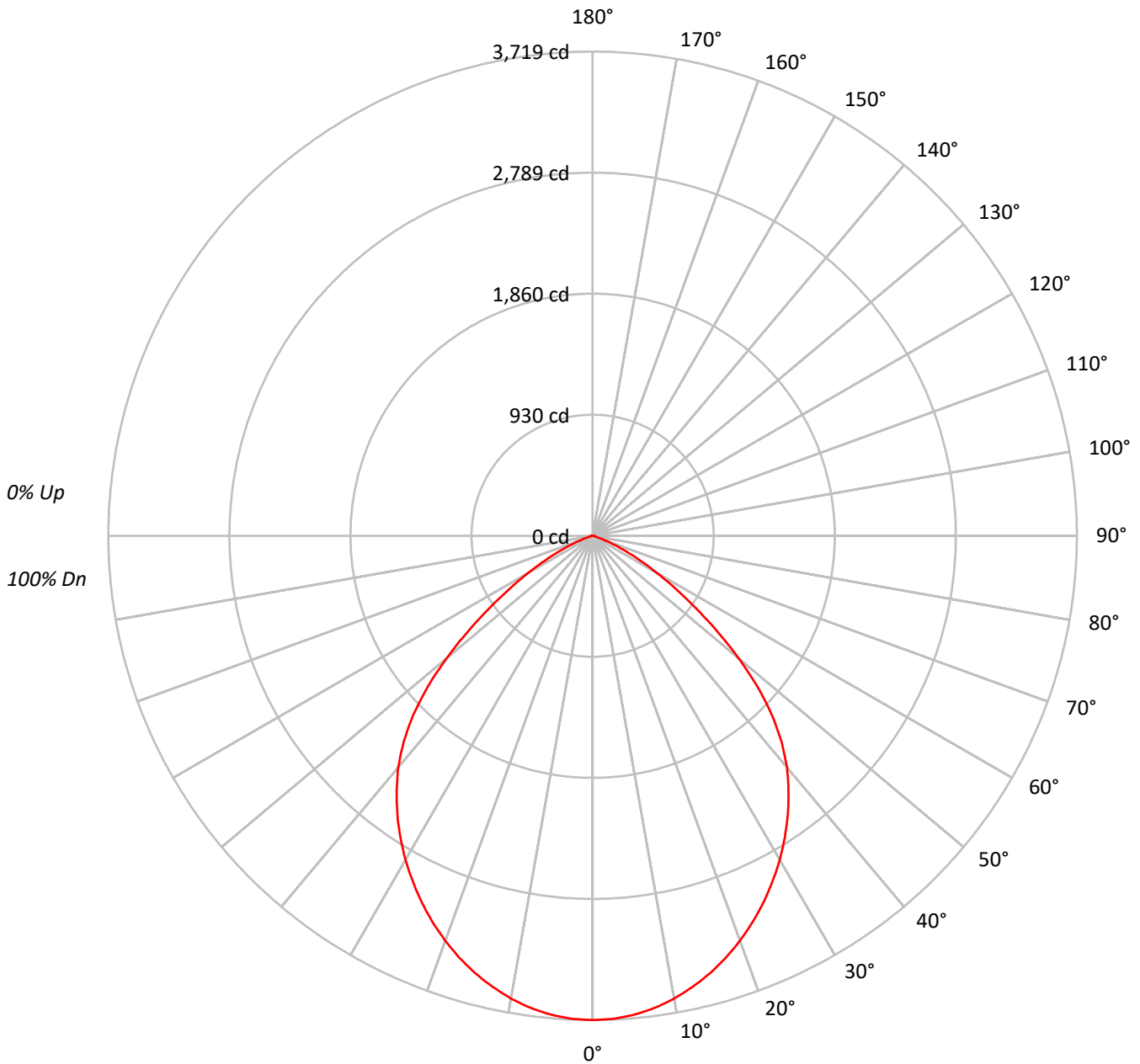
Lumens per Lamp: N/A  
Luminaire Lumens: 7083.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	358861
5°	357637
10°	353698
15°	347616
20°	339824
25°	330740
30°	320320
35°	307989
40°	292448
45°	265898
50°	219521
55°	161646
60°	109708
65°	64247
70°	25390
75°	5704
80°	7446
85°	12731



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.8	4.9
10°-20°	979.9	13.8
20°-30°	1429.3	20.2
30°-40°	1631.4	23.0
40°-50°	1483.2	20.9
50°-60°	874.8	12.4
60°-70°	293.4	4.1
70°-80°	30.6	0.4
80°-90°	10.7	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°	2759.0	39.0
0°-40°	4390.4	62.0
0°-60°	6748.3	95.3
0°-90°	7083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3719	
5°	3692	350
15°	3480	980
25°	3107	1429
35°	2615	1631
45°	1949	1483
55°	961	875
65°	281	293
75°	15	31
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3719.2
2.5°	3713.4
5°	3692.4
7.5°	3657.9
10°	3610.0
12.5°	3548.8
15°	3479.9
17.5°	3399.5
20°	3309.5
22.5°	3211.9
25°	3106.6
27.5°	2991.8
30°	2875.0
32.5°	2746.8
35°	2614.7
37.5°	2471.1
40°	2321.8
42.5°	2147.7
45°	1948.6
47.5°	1718.9
50°	1462.4
52.5°	1205.9
55°	960.9
57.5°	752.3
60°	568.5
62.5°	411.5
65°	281.4
67.5°	172.3
70°	90.0
72.5°	34.5
75°	15.3
77.5°	15.3
80°	13.4
82.5°	11.5
85°	11.5
87.5°	9.6
90°	0.0



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— 0°-180°







(END OF REPORT)