

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: P840454

Luminaire Tested: **LDS4C80D010 EU4809040 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: P840454
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 EU4809040 4LBPSSQMB
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

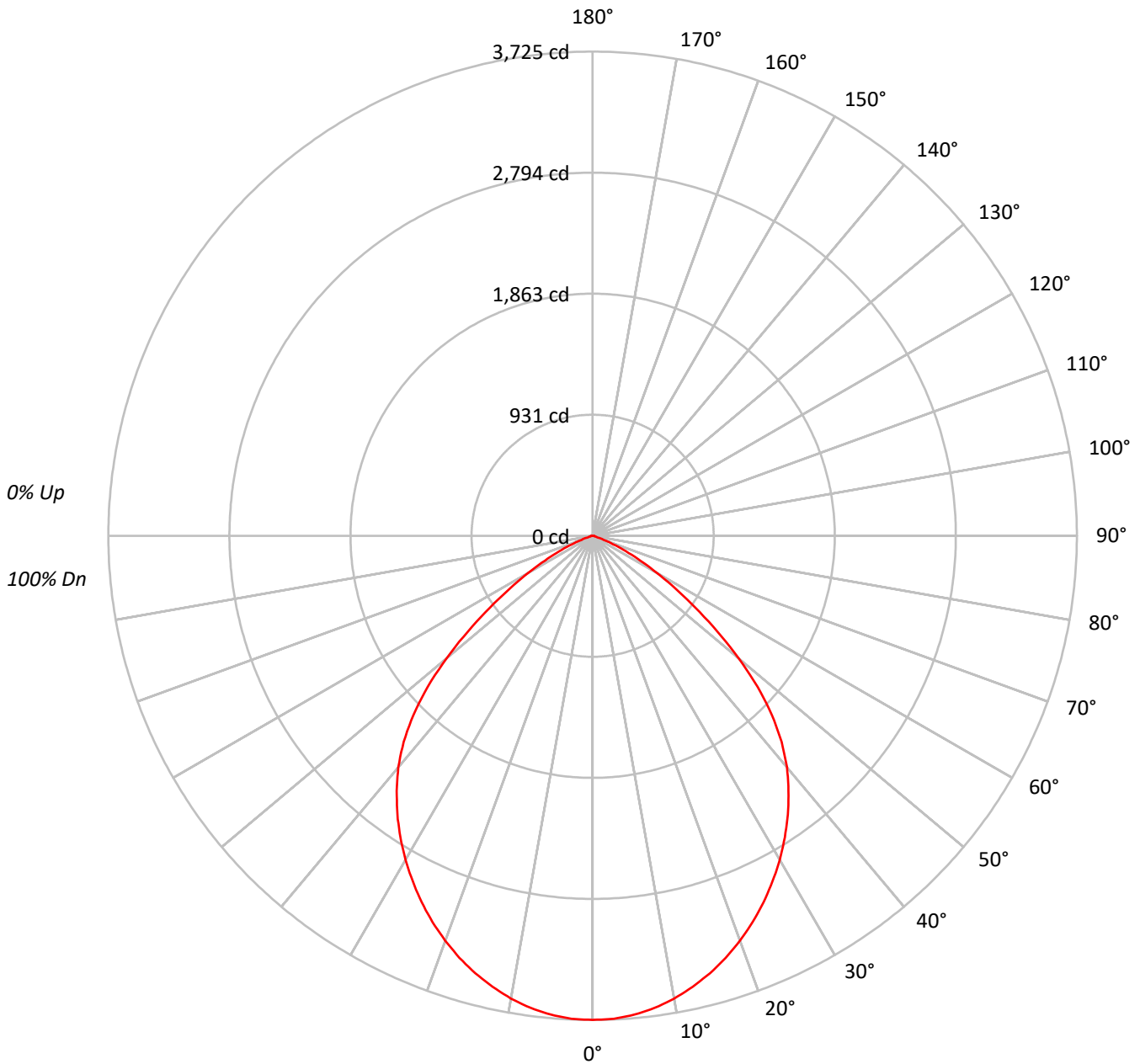
Lumens per Lamp: N/A
Luminaire Lumens: 7094.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
Input Current (Ain): 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°	359411
5°	358189
10°	354257
15°	348156
20°	340358
25°	331262
30°	320822
35°	308472
40°	292901
45°	266307
50°	219866
55°	161898
60°	109882
65°	64338
70°	25419
75°	5704
80°	7446
85°	12731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.4	4.9
10°-20°	981.4	13.8
20°-30°	1431.5	20.2
30°-40°	1634.0	23.0
40°-50°	1485.5	20.9
50°-60°	876.1	12.4
60°-70°	293.8	4.1
70°-80°	30.7	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°	2763.3	39.0
0°-40°	4397.2	62.0
0°-60°	6758.8	95.3
0°-90°	7094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3725	
5°	3698	350
15°	3485	981
25°	3112	1431
35°	2619	1634
45°	1952	1485
55°	962	876
65°	282	294
75°	15	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3724.9
2.5°	3719.2
5°	3698.1
7.5°	3663.6
10°	3615.7
12.5°	3554.3
15°	3485.3
17.5°	3404.8
20°	3314.7
22.5°	3216.9
25°	3111.5
27.5°	2996.4
30°	2879.5
32.5°	2751.0
35°	2618.8
37.5°	2475.0
40°	2325.4
42.5°	2151.0
45°	1951.6
47.5°	1721.6
50°	1464.7
52.5°	1207.8
55°	962.4
57.5°	753.4
60°	569.4
62.5°	412.2
65°	281.8
67.5°	172.5
70°	90.1
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)