

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: P840459

Luminaire Tested: **LDS4C90D010 EU4909027 4LBPSSQMMS**

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: P840459
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: LDS4C90D010 EU4909027 4LBPSSQMMS
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

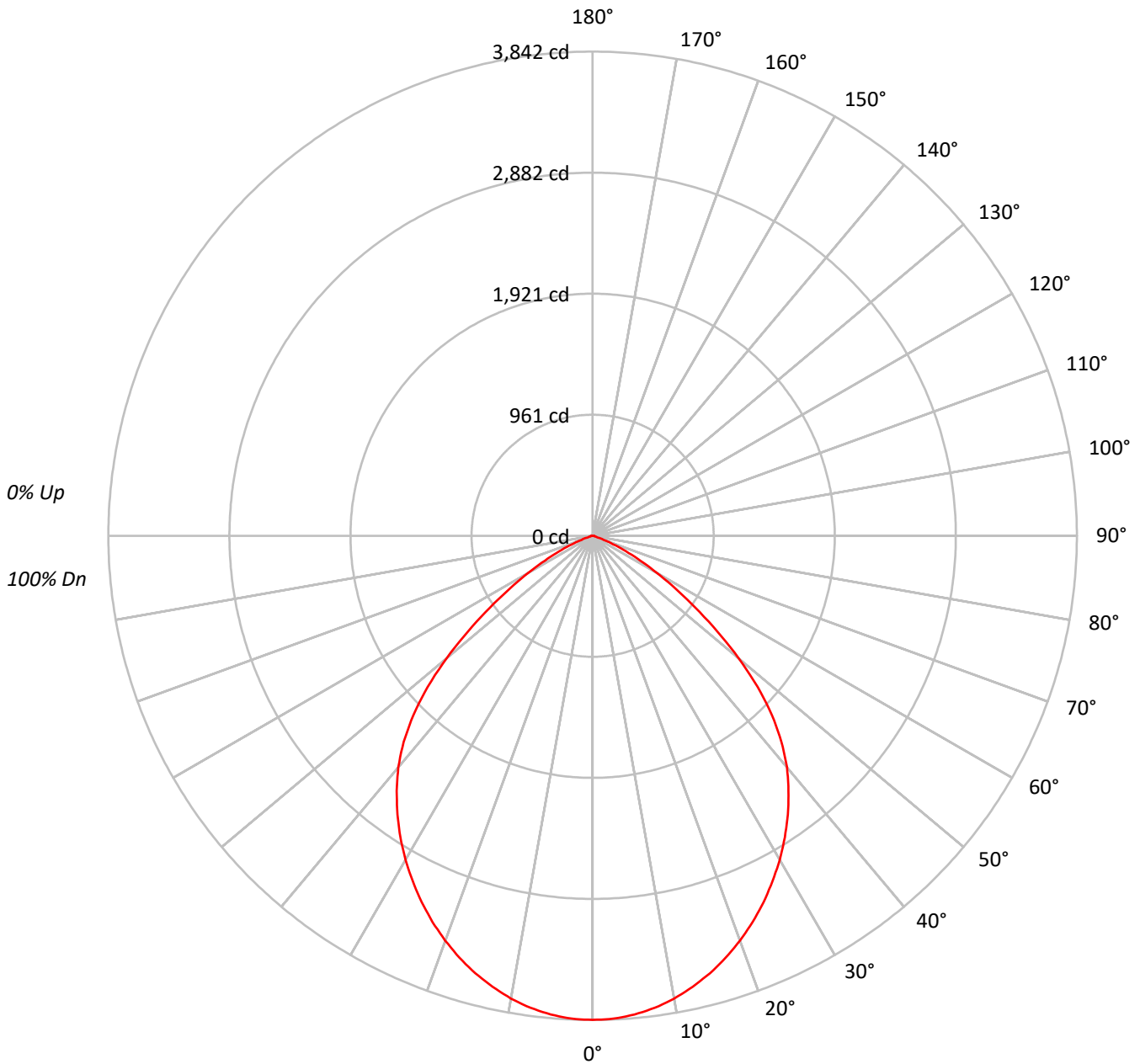
Lumens per Lamp: N/A
Luminaire Lumens: 7316.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V):
Input Current (A_{in}): 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	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°	370662
5°	369395
10°	365338
15°	359054
20°	351006
25°	341621
30°	330860
35°	318119
40°	302071
45°	274645
50°	226741
55°	166962
60°	113317
65°	66348
70°	26208
75°	5890
80°	7668
85°	13174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.3	4.9
10°-20°	1012.1	13.8
20°-30°	1476.3	20.2
30°-40°	1685.1	23.0
40°-50°	1531.9	20.9
50°-60°	903.5	12.4
60°-70°	303.0	4.1
70°-80°	31.6	0.4
80°-90°	11.1	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°	2849.7	39.0
0°-40°	4534.8	62.0
0°-60°	6970.3	95.3
0°-90°	7316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7316.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3842	
5°	3814	361
15°	3594	1012
25°	3209	1476
35°	2701	1685
45°	2013	1532
55°	992	904
65°	291	303
75°	16	32
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3841.5
2.5°	3835.6
5°	3813.8
7.5°	3778.2
10°	3728.8
12.5°	3665.5
15°	3594.4
17.5°	3511.3
20°	3418.4
22.5°	3317.6
25°	3208.8
27.5°	3090.2
30°	2969.6
32.5°	2837.1
35°	2700.7
37.5°	2552.4
40°	2398.2
42.5°	2218.3
45°	2012.7
47.5°	1775.4
50°	1510.5
52.5°	1245.6
55°	992.5
57.5°	777.0
60°	587.2
62.5°	425.1
65°	290.6
67.5°	177.9
70°	92.9
72.5°	35.6
75°	15.8
77.5°	15.8
80°	13.8
82.5°	11.9
85°	11.9
87.5°	9.9
90°	0.0



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— 0°-180°







(END OF REPORT)