

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: P840429

Luminaire Tested: **LDS4C70D010 EU4709027 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: P840429
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: LDS4C70D010 EU4709027 4LBPSSQMMS
Description: 4 INCH 7000 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

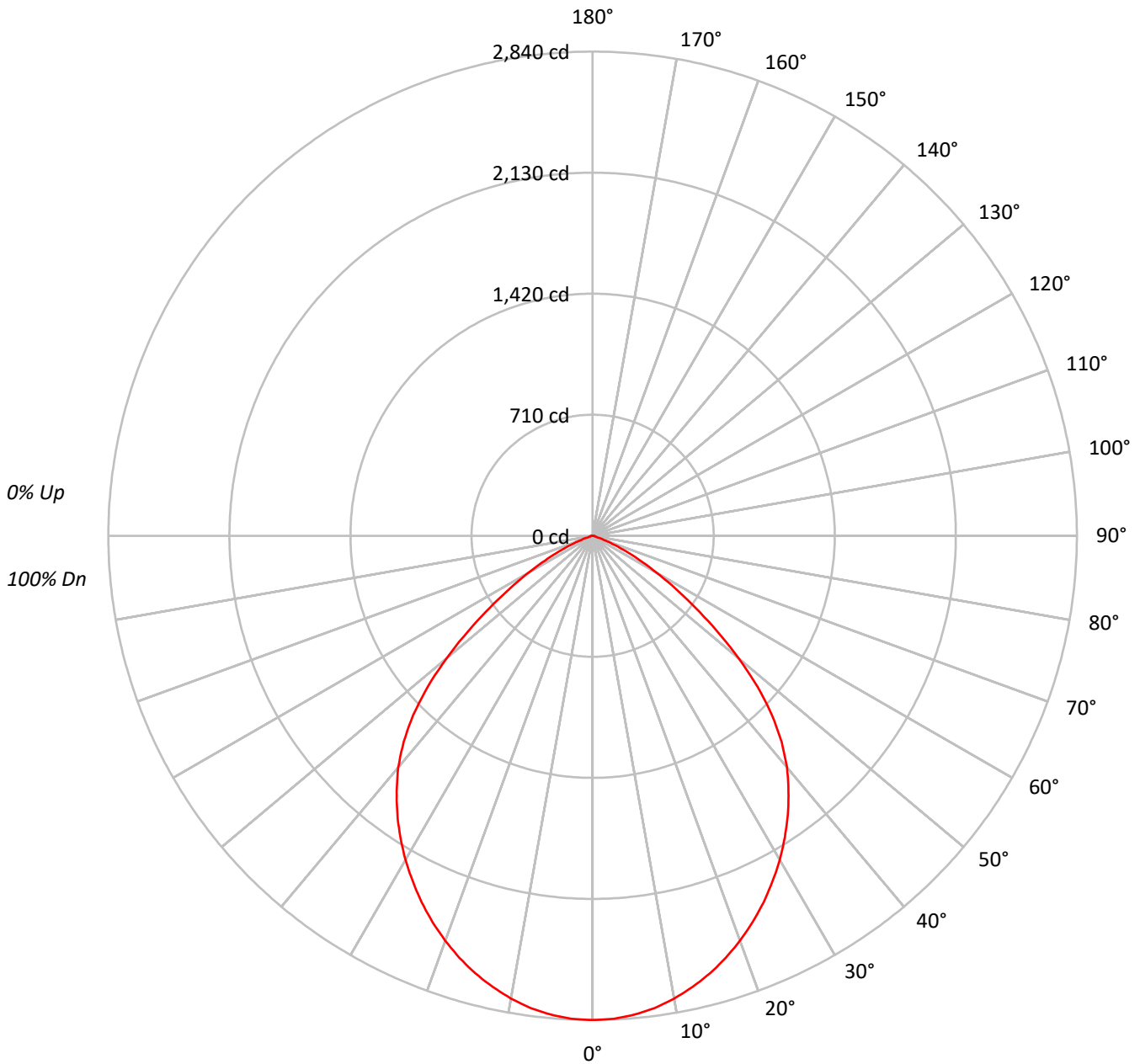
Lumens per Lamp: N/A
Luminaire Lumens: 5409.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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				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°	274048
5°	273109
10°	270104
15°	265455
20°	259517
25°	252575
30°	244613
35°	235194
40°	223335
45°	203060
50°	167643
55°	123442
60°	83772
65°	49064
70°	19381
75°	4362
80°	5668
85°	9742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	4.9
10°-20°	748.3	13.8
20°-30°	1091.5	20.2
30°-40°	1245.8	23.0
40°-50°	1132.6	20.9
50°-60°	668.0	12.4
60°-70°	224.1	4.1
70°-80°	23.4	0.4
80°-90°	8.2	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°	2106.9	39.0
0°-40°	3352.8	62.0
0°-60°	5153.4	95.3
0°-90°	5409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5409.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2840	
5°	2820	267
15°	2657	748
25°	2372	1091
35°	1997	1246
45°	1488	1133
55°	734	668
65°	215	224
75°	12	23
85°	9	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2840.2
2.5°	2835.8
5°	2819.7
7.5°	2793.4
10°	2756.8
12.5°	2710.1
15°	2657.4
17.5°	2596.1
20°	2527.4
22.5°	2452.8
25°	2372.4
27.5°	2284.7
30°	2195.5
32.5°	2097.6
35°	1996.7
37.5°	1887.1
40°	1773.1
42.5°	1640.1
45°	1488.1
47.5°	1312.6
50°	1116.8
52.5°	920.9
55°	733.8
57.5°	574.5
60°	434.1
62.5°	314.3
65°	214.9
67.5°	131.6
70°	68.7
72.5°	26.3
75°	11.7
77.5°	11.7
80°	10.2
82.5°	8.8
85°	8.8
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)