

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: P840455

Luminaire Tested: **LDS4C80D010 EU4809040 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: P840455
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 4LBPSSQMMS
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

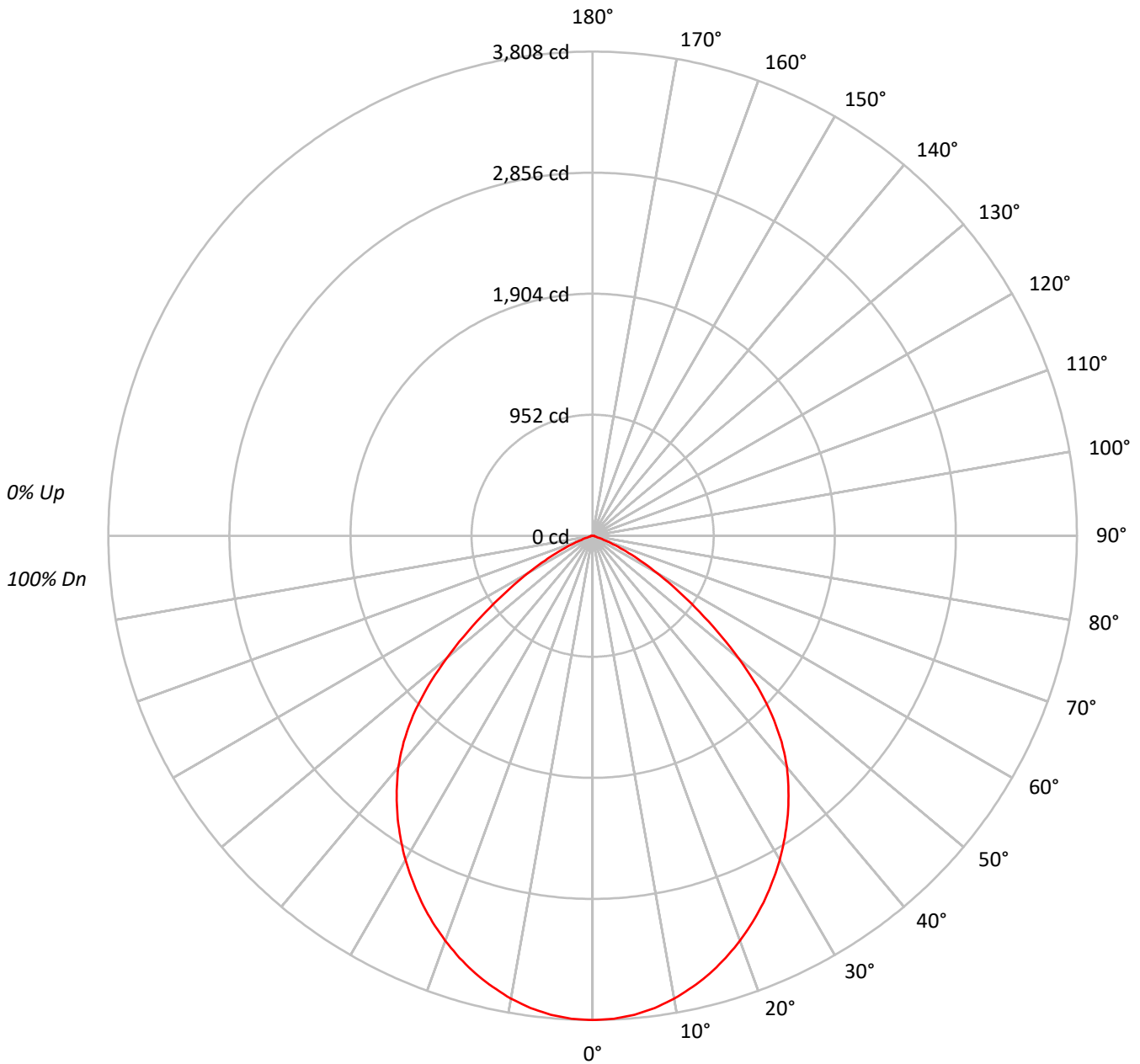
Lumens per Lamp: N/A
Luminaire Lumens: 7253.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
Input Current (A_{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°	367468
5°	366218
10°	362193
15°	355957
20°	347987
25°	338682
30°	328008
35°	315386
40°	299476
45°	272284
50°	224790
55°	165532
60°	112332
65°	65777
70°	25983
75°	5853
80°	7613
85°	13064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	4.9
10°-20°	1003.4	13.8
20°-30°	1463.6	20.2
30°-40°	1670.6	23.0
40°-50°	1518.7	20.9
50°-60°	895.7	12.3
60°-70°	300.4	4.1
70°-80°	31.4	0.4
80°-90°	11.0	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°	2825.2	39.0
0°-40°	4495.8	62.0
0°-60°	6910.3	95.3
0°-90°	7253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7253.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3808	
5°	3781	358
15°	3563	1003
25°	3181	1464
35°	2678	1671
45°	1995	1519
55°	984	896
65°	288	300
75°	16	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3808.4
2.5°	3802.5
5°	3781.0
7.5°	3745.7
10°	3696.7
12.5°	3634.0
15°	3563.4
17.5°	3481.1
20°	3389.0
22.5°	3289.0
25°	3181.2
27.5°	3063.6
30°	2944.0
32.5°	2812.7
35°	2677.5
37.5°	2530.5
40°	2377.6
42.5°	2199.2
45°	1995.4
47.5°	1760.1
50°	1497.5
52.5°	1234.8
55°	984.0
57.5°	770.3
60°	582.1
62.5°	421.4
65°	288.1
67.5°	176.4
70°	92.1
72.5°	35.3
75°	15.7
77.5°	15.7
80°	13.7
82.5°	11.8
85°	11.8
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)