

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: P840457

Luminaire Tested: **LDS4C80D010 EU4809050 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: P840457
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 EU4809050 4LBPSSQMMS
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

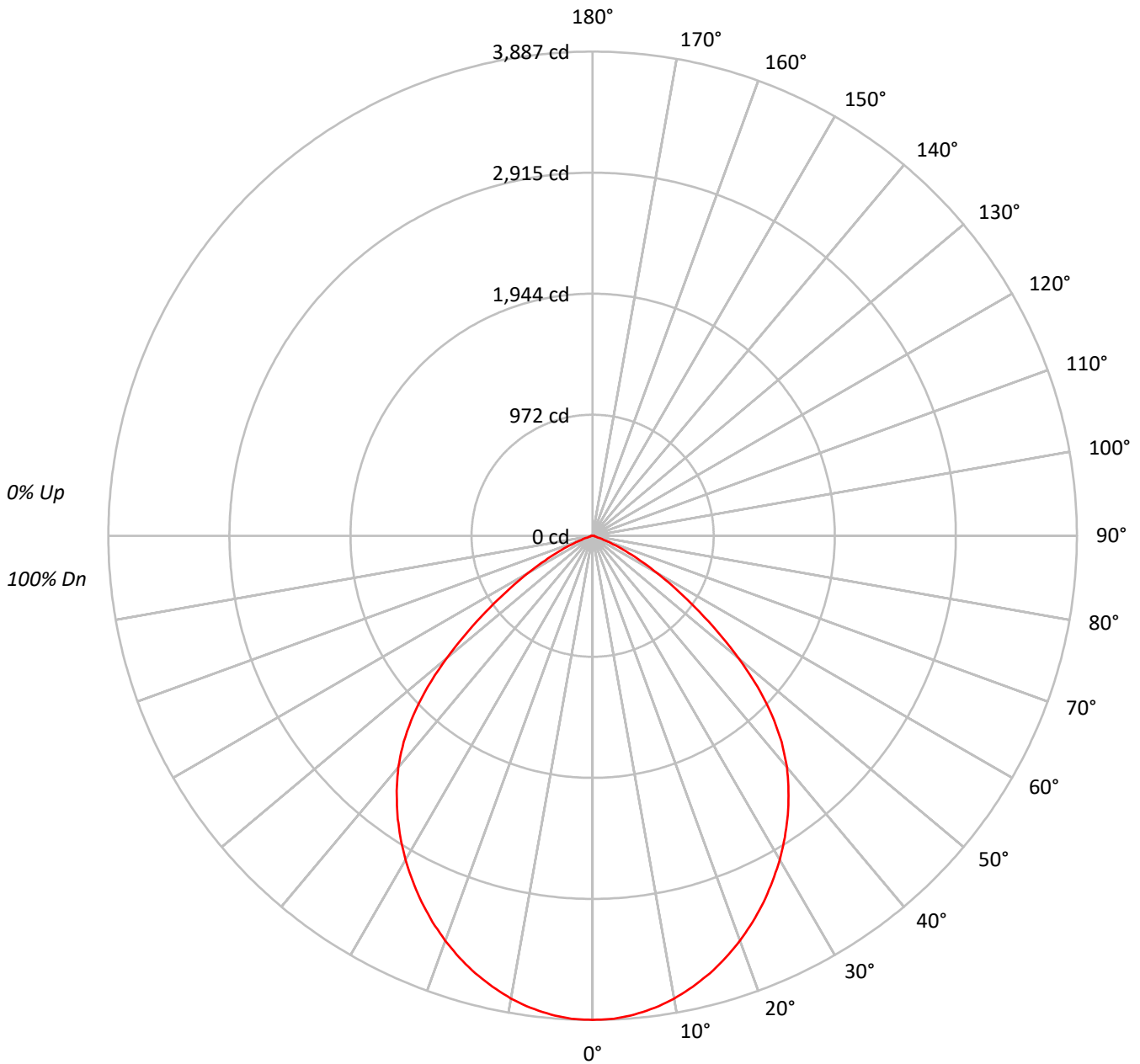
Lumens per Lamp: N/A
Luminaire Lumens: 7402.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	375023
5°	373734
10°	369630
15°	363270
20°	355134
25°	345634
30°	334749
35°	321864
40°	305623
45°	277865
50°	229413
55°	168930
60°	114648
65°	67124
70°	26519
75°	5965
80°	7779
85°	13285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	4.9
10°-20°	1024.0	13.8
20°-30°	1493.6	20.2
30°-40°	1704.9	23.0
40°-50°	1549.9	20.9
50°-60°	914.1	12.4
60°-70°	306.6	4.1
70°-80°	32.0	0.4
80°-90°	11.2	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°	2883.2	39.0
0°-40°	4588.1	62.0
0°-60°	7052.2	95.3
0°-90°	7402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7402.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3887	
5°	3859	366
15°	3637	1024
25°	3246	1494
35°	2732	1705
45°	2036	1550
55°	1004	914
65°	294	307
75°	16	32
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3886.7
2.5°	3880.7
5°	3858.6
7.5°	3822.6
10°	3772.6
12.5°	3708.6
15°	3636.6
17.5°	3552.6
20°	3458.6
22.5°	3356.6
25°	3246.5
27.5°	3126.5
30°	3004.5
32.5°	2870.5
35°	2732.5
37.5°	2582.4
40°	2426.4
42.5°	2244.4
45°	2036.3
47.5°	1796.3
50°	1528.3
52.5°	1260.2
55°	1004.2
57.5°	786.1
60°	594.1
62.5°	430.1
65°	294.0
67.5°	180.0
70°	94.0
72.5°	36.0
75°	16.0
77.5°	16.0
80°	14.0
82.5°	12.0
85°	12.0
87.5°	10.0
90°	0.0



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— 0°-180°







(END OF REPORT)