

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: P840017

Luminaire Tested: **LDS4C40D010 EU4409035 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840017
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: LDS4C40D010 EU4409035 4LBCSMMS
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

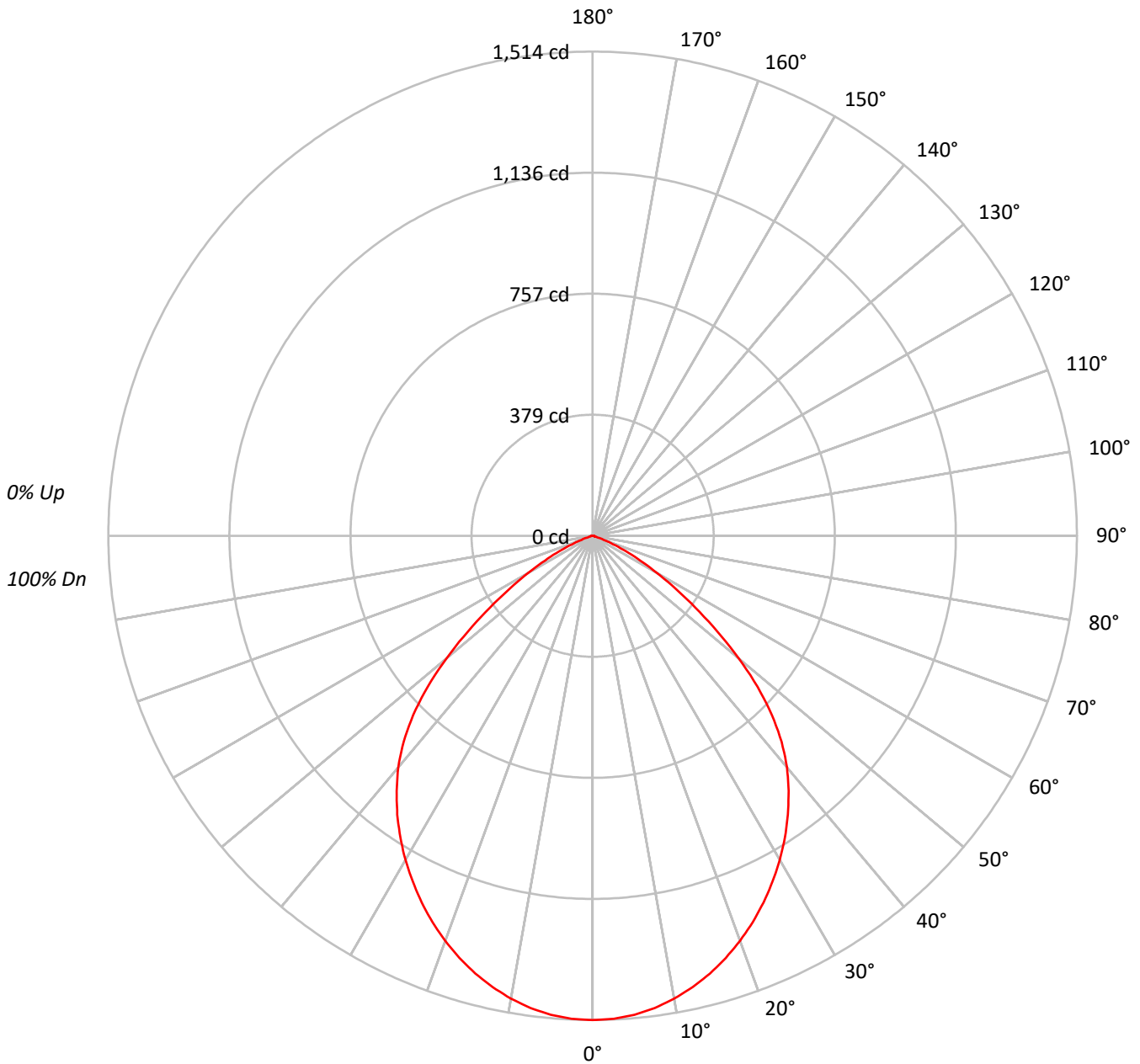
Lumens per Lamp: N/A
Luminaire Lumens: 2884.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	186037
5°	185403
10°	183368
15°	180212
20°	176169
25°	171462
30°	166060
35°	159665
40°	151617
45°	137846
50°	113796
55°	83791
60°	56881
65°	33314
70°	13147
75°	2943
80°	3891
85°	6625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.9
10°-20°	399.0	13.8
20°-30°	582.0	20.2
30°-40°	664.3	23.0
40°-50°	603.9	20.9
50°-60°	356.2	12.3
60°-70°	119.5	4.1
70°-80°	12.4	0.4
80°-90°	4.4	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°	1123.4	39.0
0°-40°	1787.6	62.0
0°-60°	2747.7	95.3
0°-90°	2884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1514	
5°	1503	142
15°	1417	399
25°	1265	582
35°	1065	664
45°	793	604
55°	391	356
65°	115	119
75°	6	12
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1514.3
2.5°	1512.0
5°	1503.4
7.5°	1489.4
10°	1469.9
12.5°	1445.0
15°	1416.9
17.5°	1384.2
20°	1347.5
22.5°	1307.8
25°	1264.9
27.5°	1218.2
30°	1170.6
32.5°	1118.4
35°	1064.6
37.5°	1006.2
40°	945.4
42.5°	874.5
45°	793.4
47.5°	699.9
50°	595.4
52.5°	491.0
55°	391.2
57.5°	306.3
60°	231.5
62.5°	167.6
65°	114.6
67.5°	70.1
70°	36.6
72.5°	14.0
75°	6.2
77.5°	6.2
80°	5.5
82.5°	4.7
85°	4.7
87.5°	3.9
90°	0.0



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— 0°-180°







(END OF REPORT)