

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: P840016

Luminaire Tested: **LDS4C40D010 EU4409035 4LBCSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840016
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 4LBCSMB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

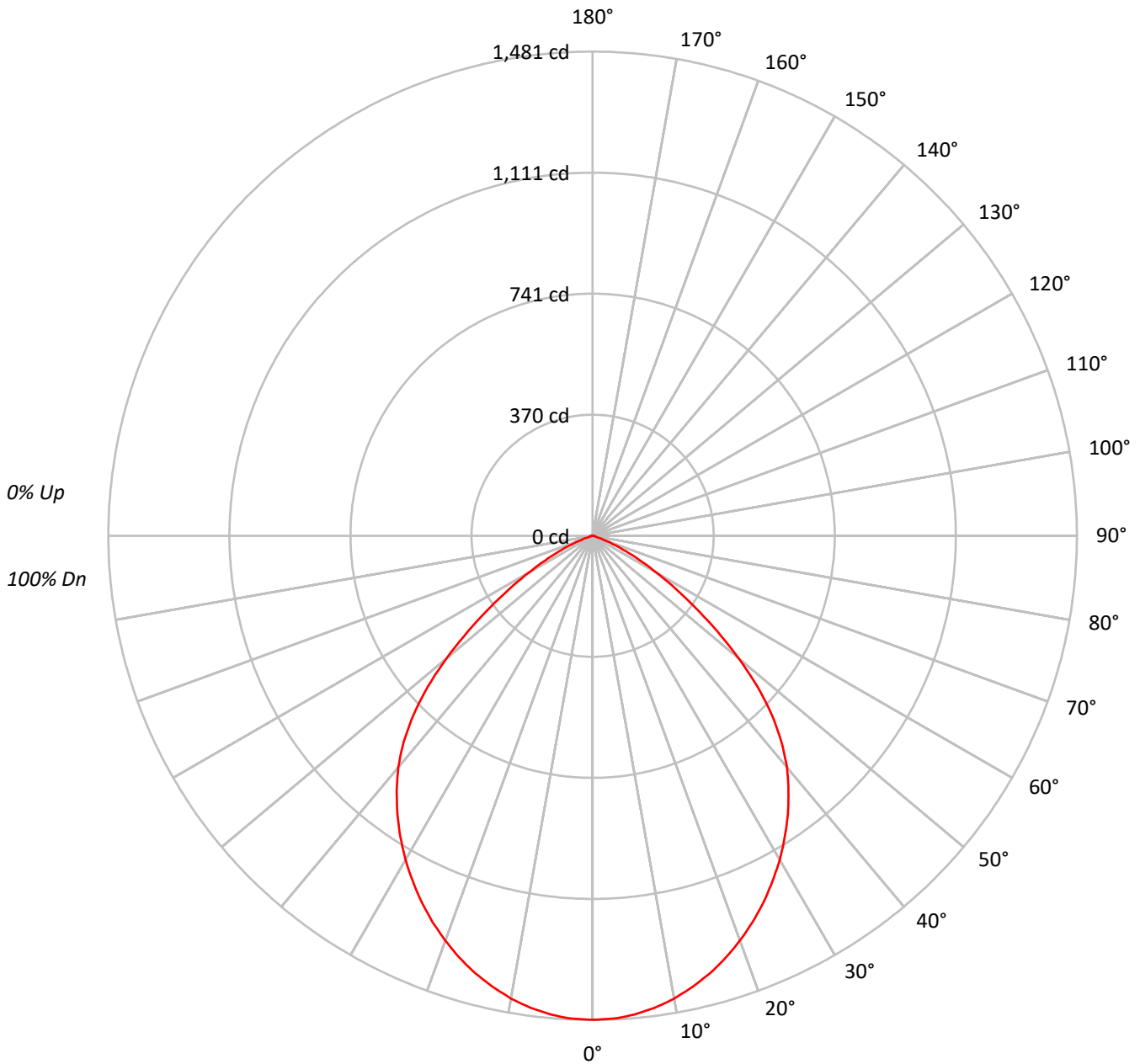
Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	181909
5°	181297
10°	179301
15°	176218
20°	172260
25°	167667
30°	162386
35°	156125
40°	148250
45°	134788
50°	111274
55°	81949
60°	55603
65°	32558
70°	12859
75°	2895
80°	3750
85°	6484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	4.9
10°-20°	390.1	13.8
20°-30°	569.0	20.2
30°-40°	649.5	23.0
40°-50°	590.5	20.9
50°-60°	348.3	12.3
60°-70°	116.8	4.1
70°-80°	12.2	0.4
80°-90°	4.3	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°	1098.5	39.0
0°-40°	1748.0	62.0
0°-60°	2686.8	95.3
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1481	
5°	1470	139
15°	1386	390
25°	1237	569
35°	1041	650
45°	776	591
55°	383	348
65°	112	117
75°	6	12
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1480.7
2.5°	1478.4
5°	1470.1
7.5°	1456.3
10°	1437.3
12.5°	1412.9
15°	1385.5
17.5°	1353.5
20°	1317.6
22.5°	1278.8
25°	1236.9
27.5°	1191.1
30°	1144.7
32.5°	1093.6
35°	1041.0
37.5°	983.9
40°	924.4
42.5°	855.1
45°	775.8
47.5°	684.4
50°	582.2
52.5°	480.1
55°	382.6
57.5°	299.5
60°	226.3
62.5°	163.8
65°	112.0
67.5°	68.6
70°	35.8
72.5°	13.7
75°	6.1
77.5°	6.1
80°	5.3
82.5°	4.6
85°	4.6
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)