

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: P839996

Luminaire Tested: **LDS4C40D010 EU4409027 4LBCSMB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839996
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 EU4409027 4LBCSMB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

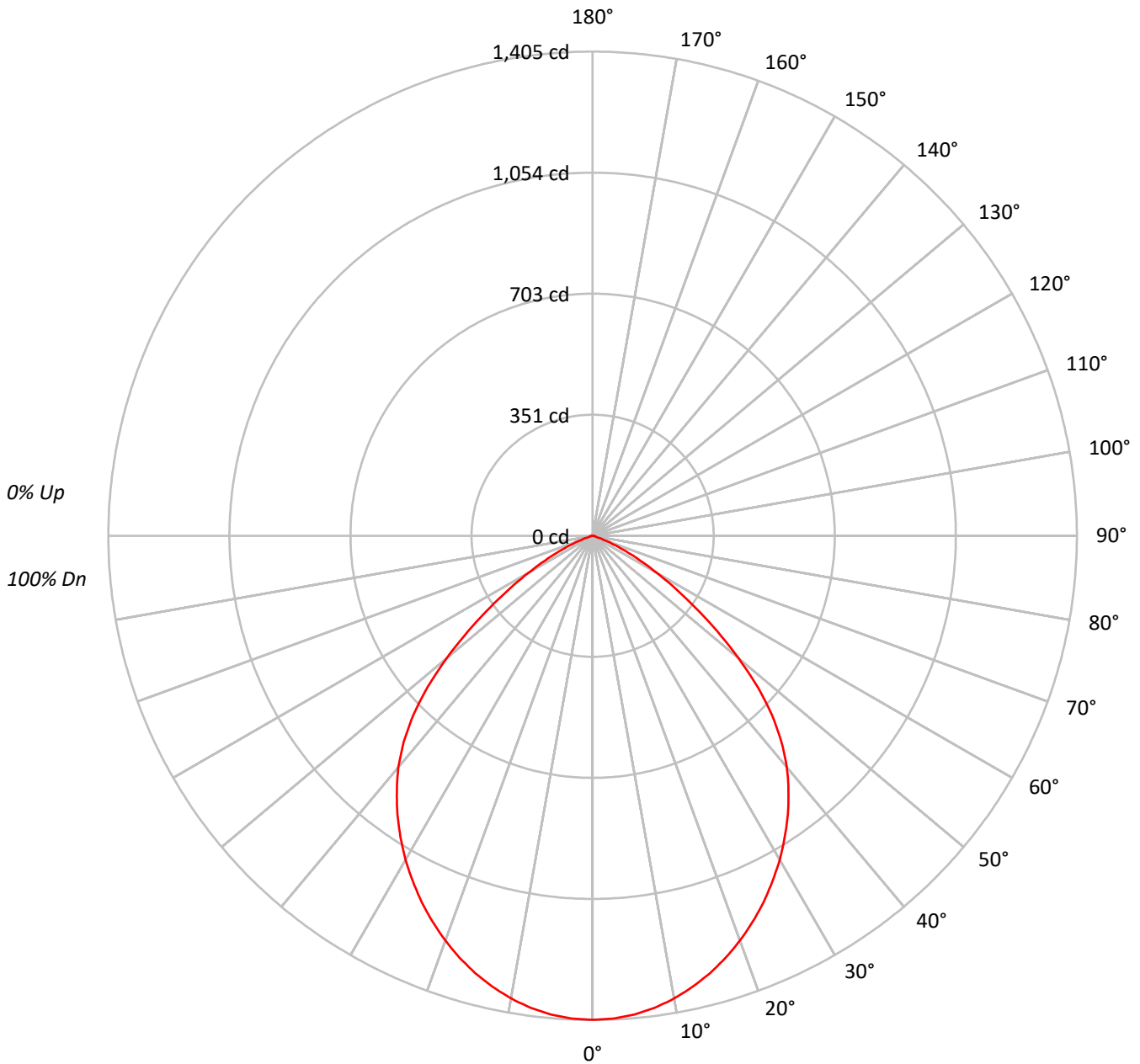
Lumens per Lamp: N/A
Luminaire Lumens: 2675.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	172560
5°	171974
10°	170082
15°	167150
20°	163409
25°	159045
30°	154030
35°	148102
40°	140632
45°	127856
50°	105559
55°	77729
60°	52753
65°	30901
70°	12213
75°	2753
80°	3608
85°	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	4.9
10°-20°	370.1	13.8
20°-30°	539.8	20.2
30°-40°	616.2	23.0
40°-50°	560.1	20.9
50°-60°	330.4	12.3
60°-70°	110.8	4.1
70°-80°	11.6	0.4
80°-90°	4.0	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°	1042.0	39.0
0°-40°	1658.1	62.0
0°-60°	2548.6	95.3
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1405	
5°	1394	132
15°	1314	370
25°	1173	540
35°	988	616
45°	736	560
55°	363	330
65°	106	111
75°	6	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1404.6
2.5°	1402.4
5°	1394.5
7.5°	1381.5
10°	1363.4
12.5°	1340.3
15°	1314.2
17.5°	1283.9
20°	1249.9
22.5°	1213.0
25°	1173.3
27.5°	1129.9
30°	1085.8
32.5°	1037.4
35°	987.5
37.5°	933.3
40°	876.9
42.5°	811.1
45°	735.9
47.5°	649.2
50°	552.3
52.5°	455.4
55°	362.9
57.5°	284.1
60°	214.7
62.5°	155.4
65°	106.3
67.5°	65.1
70°	34.0
72.5°	13.0
75°	5.8
77.5°	5.8
80°	5.1
82.5°	4.3
85°	4.3
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)