

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: P840000

Luminaire Tested: **LDS4C40D010 EU4409027 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840000
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 4LBSB
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

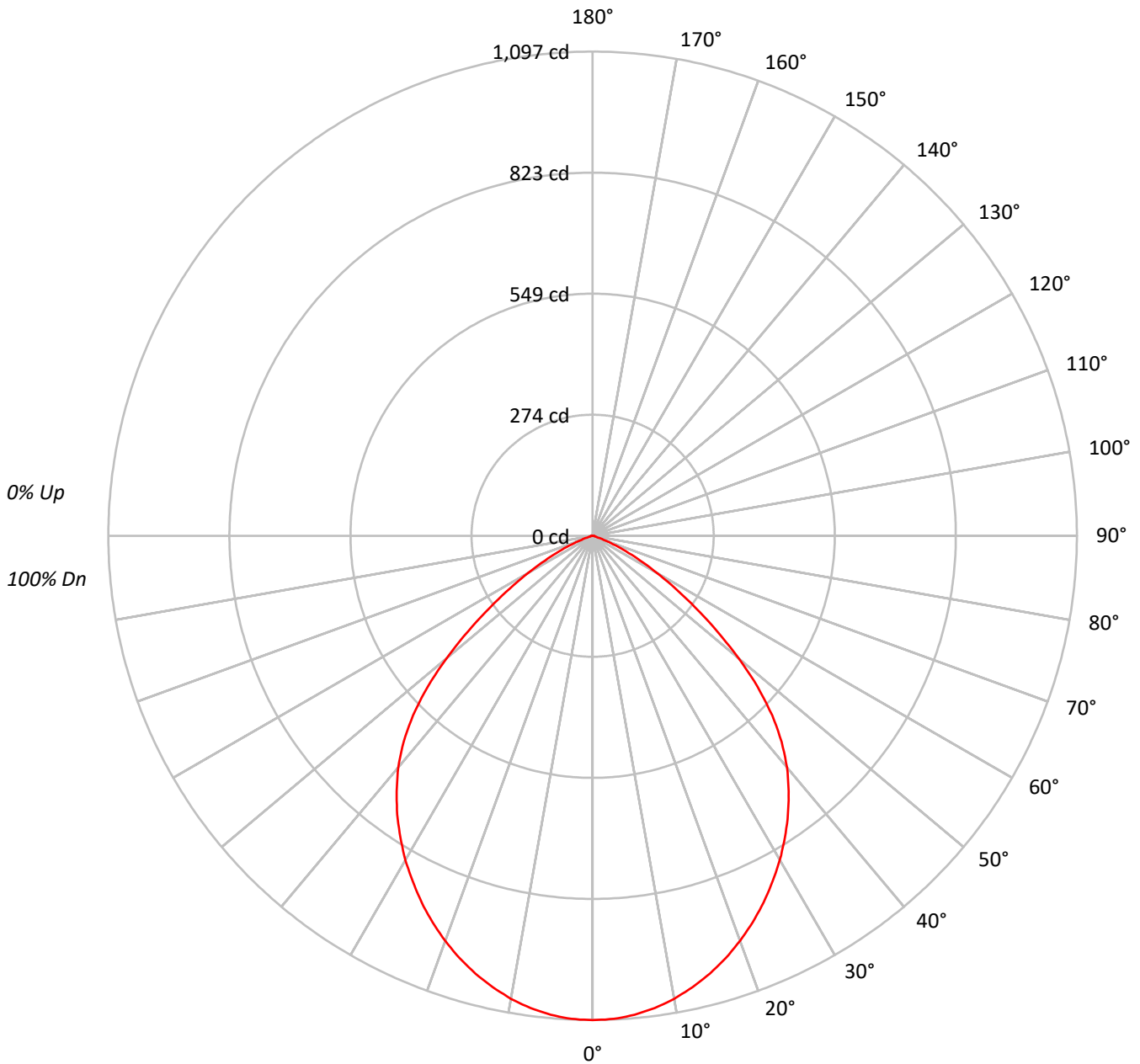
Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134819
5°	134360
10°	132882
15°	130596
20°	127679
25°	124262
30°	120339
35°	115707
40°	109872
45°	99901
50°	82471
55°	60722
60°	41205
65°	24128
70°	9519
75°	2136
80°	2830
85°	4793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	4.9
10°-20°	289.1	13.8
20°-30°	421.7	20.2
30°-40°	481.4	23.0
40°-50°	437.6	20.9
50°-60°	258.1	12.3
60°-70°	86.5	4.1
70°-80°	9.0	0.4
80°-90°	3.2	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°	814.1	39.0
0°-40°	1295.5	62.0
0°-60°	1991.2	95.3
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1097	
5°	1090	103
15°	1027	289
25°	917	422
35°	772	481
45°	575	438
55°	284	258
65°	83	87
75°	4	9
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1097.4
2.5°	1095.7
5°	1089.5
7.5°	1079.3
10°	1065.2
12.5°	1047.2
15°	1026.8
17.5°	1003.1
20°	976.6
22.5°	947.7
25°	916.7
27.5°	882.8
30°	848.3
32.5°	810.5
35°	771.5
37.5°	729.2
40°	685.1
42.5°	633.7
45°	575.0
47.5°	507.2
50°	431.5
52.5°	355.8
55°	283.5
57.5°	222.0
60°	167.7
62.5°	121.4
65°	83.0
67.5°	50.8
70°	26.5
72.5°	10.2
75°	4.5
77.5°	4.5
80°	4.0
82.5°	3.4
85°	3.4
87.5°	2.8
90°	0.0



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— 0°-180°







(END OF REPORT)