

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: P840013

Luminaire Tested: **LDS4C40D010 EU4409030 4LBSLI**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C40D010 EU4409030 4LBSLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

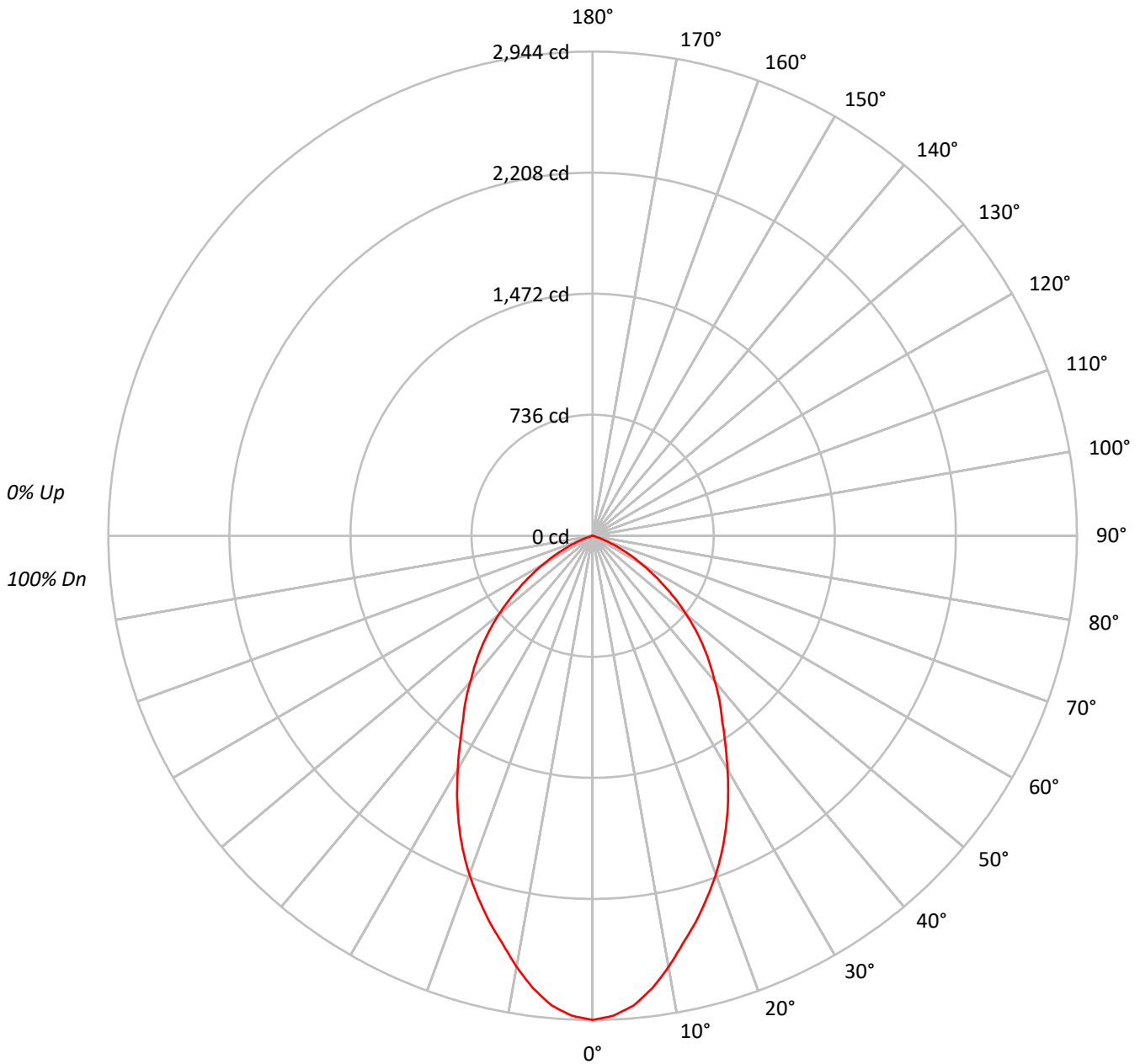
Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51																			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	361681
5°	353480
10°	331944
15°	308836
20°	286434
25°	261104
30°	232450
35°	206038
40°	185184
45°	165749
50°	142179
55°	114377
60°	85236
65°	54418
70°	26222
75°	4367
80°	3184
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.9	6.5
10°-20°	680.8	16.5
20°-30°	882.2	21.4
30°-40°	864.4	21.0
40°-50°	732.7	17.8
50°-60°	480.3	11.6
60°-70°	193.1	4.7
70°-80°	22.1	0.5
80°-90°	0.6	0.0
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°	1829.9	44.4
0°-40°	2694.3	65.3
0°-60°	3907.3	94.8
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2944	
5°	2866	267
15°	2428	681
25°	1926	882
35°	1374	864
45°	954	733
55°	534	480
65°	187	193
75°	9	22
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2944.0
2.5°	2921.1
5°	2866.3
7.5°	2775.0
10°	2660.9
12.5°	2537.7
15°	2428.2
17.5°	2309.6
20°	2190.9
22.5°	2063.1
25°	1926.2
27.5°	1784.6
30°	1638.6
32.5°	1501.7
35°	1373.8
37.5°	1268.9
40°	1154.7
42.5°	1054.3
45°	954.0
47.5°	849.0
50°	743.9
52.5°	639.0
55°	534.0
57.5°	438.2
60°	346.9
62.5°	264.7
65°	187.2
67.5°	123.2
70°	73.0
72.5°	31.9
75°	9.2
77.5°	4.5
80°	4.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)