

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: P840033

Luminaire Tested: **LDS4C40D010 EU4409040 4LBSLI**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P840033
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 EU4409040 4LBSLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

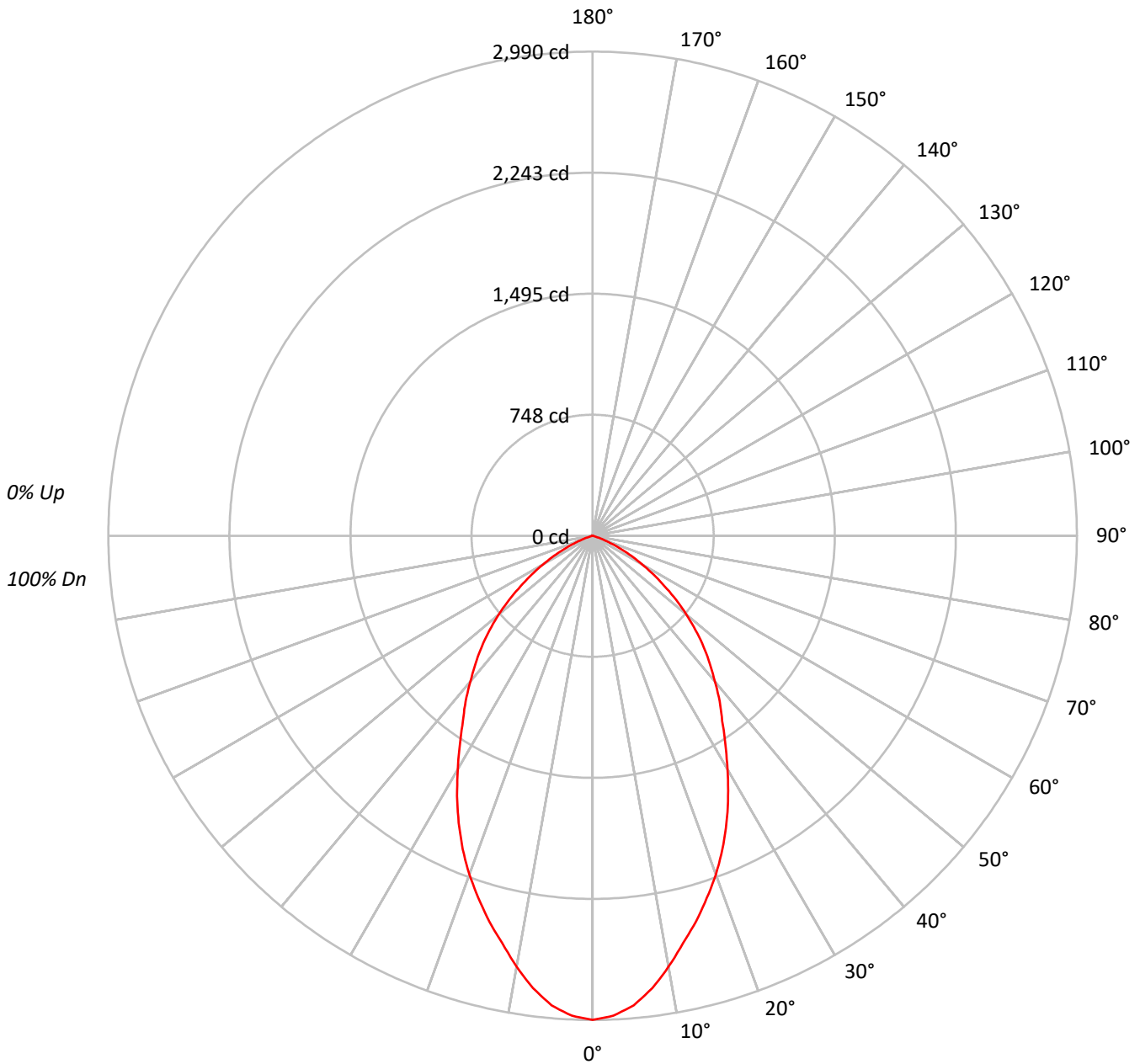
Lumens per Lamp: N/A
Luminaire Lumens: 4187.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	367295
5°	358968
10°	337096
15°	313631
20°	290879
25°	265157
30°	236053
35°	209232
40°	188070
45°	168320
50°	144396
55°	116154
60°	86538
65°	55261
70°	26617
75°	4414
80°	3254
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	6.5
10°-20°	691.4	16.5
20°-30°	895.9	21.4
30°-40°	877.8	21.0
40°-50°	744.0	17.8
50°-60°	487.8	11.6
60°-70°	196.0	4.7
70°-80°	22.4	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°	1858.3	44.4
0°-40°	2736.1	65.3
0°-60°	3967.9	94.8
0°-90°	4187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4187.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2990	
5°	2911	271
15°	2466	691
25°	1956	896
35°	1395	878
45°	969	744
55°	542	488
65°	190	196
75°	9	22
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2989.7
2.5°	2966.5
5°	2910.8
7.5°	2818.1
10°	2702.2
12.5°	2577.1
15°	2465.9
17.5°	2345.4
20°	2224.9
22.5°	2095.1
25°	1956.1
27.5°	1812.3
30°	1664.0
32.5°	1525.0
35°	1395.1
37.5°	1288.6
40°	1172.7
42.5°	1070.7
45°	968.8
47.5°	862.1
50°	755.5
52.5°	649.0
55°	542.3
57.5°	445.0
60°	352.2
62.5°	268.8
65°	190.1
67.5°	125.1
70°	74.1
72.5°	32.4
75°	9.3
77.5°	4.6
80°	4.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)