

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: P840083

Luminaire Tested: **LDS4C45D010 EU4459040 4LBSLI**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P840083  
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: LDS4C45D010 EU4459040 4LBSLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

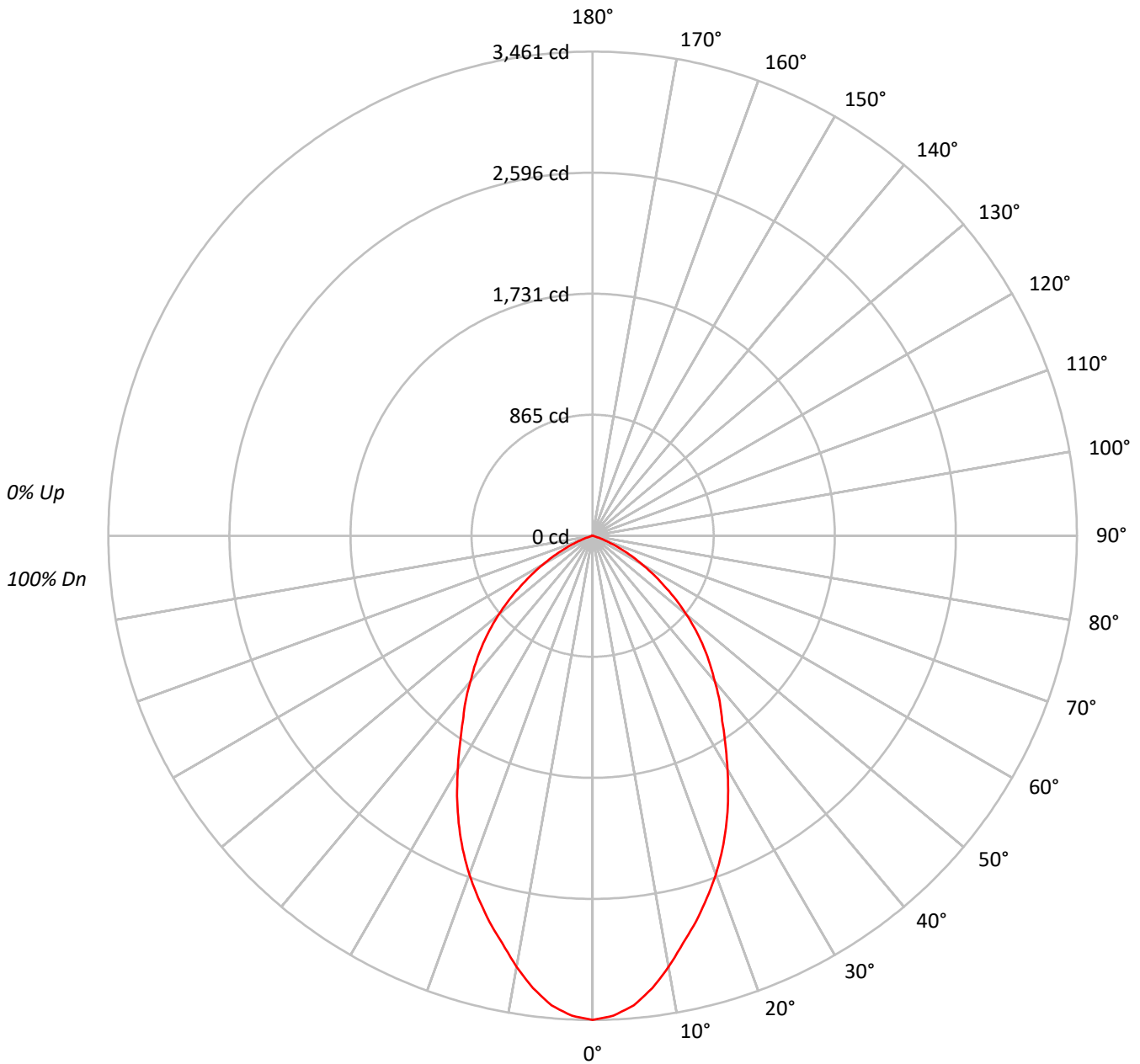
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4847.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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): 49.6  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P840083

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSLI

### Luminous Intensity Polar Plot





TEST NUMBER: P840083

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSLI

**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°	425184
5°	415561
10°	390239
15°	363069
20°	336729
25°	306948
30°	273277
35°	242227
40°	217707
45°	194851
50°	167159
55°	134468
60°	100199
65°	63953
70°	30819
75°	5126
80°	3750
85°	0



TEST NUMBER: P840083

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	6.5
10°-20°	800.3	16.5
20°-30°	1037.1	21.4
30°-40°	1016.2	21.0
40°-50°	861.3	17.8
50°-60°	564.6	11.6
60°-70°	227.0	4.7
70°-80°	25.9	0.5
80°-90°	0.7	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°	2151.3	44.4
0°-40°	3167.5	65.3
0°-60°	4593.4	94.8
0°-90°	4847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3461	
5°	3370	314
15°	2855	800
25°	2264	1037
35°	1615	1016
45°	1122	861
55°	628	565
65°	220	227
75°	11	26
85°	0	1
90°	0	



TEST NUMBER: P840083

CATALOG NUMBER: LDS4C45D010 EU4459040 4LBSLI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3460.9
2.5°	3434.1
5°	3369.7
7.5°	3262.3
10°	3128.2
12.5°	2983.3
15°	2854.6
17.5°	2715.1
20°	2575.6
22.5°	2425.4
25°	2264.4
27.5°	2098.0
30°	1926.4
32.5°	1765.4
35°	1615.1
37.5°	1491.7
40°	1357.5
42.5°	1239.5
45°	1121.5
47.5°	998.0
50°	874.6
52.5°	751.2
55°	627.8
57.5°	515.1
60°	407.8
62.5°	311.2
65°	220.0
67.5°	144.9
70°	85.8
72.5°	37.5
75°	10.8
77.5°	5.3
80°	5.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)