

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P747510

Luminaire Tested: LD4D40BD010-EU4DR2540509040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR2540509040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

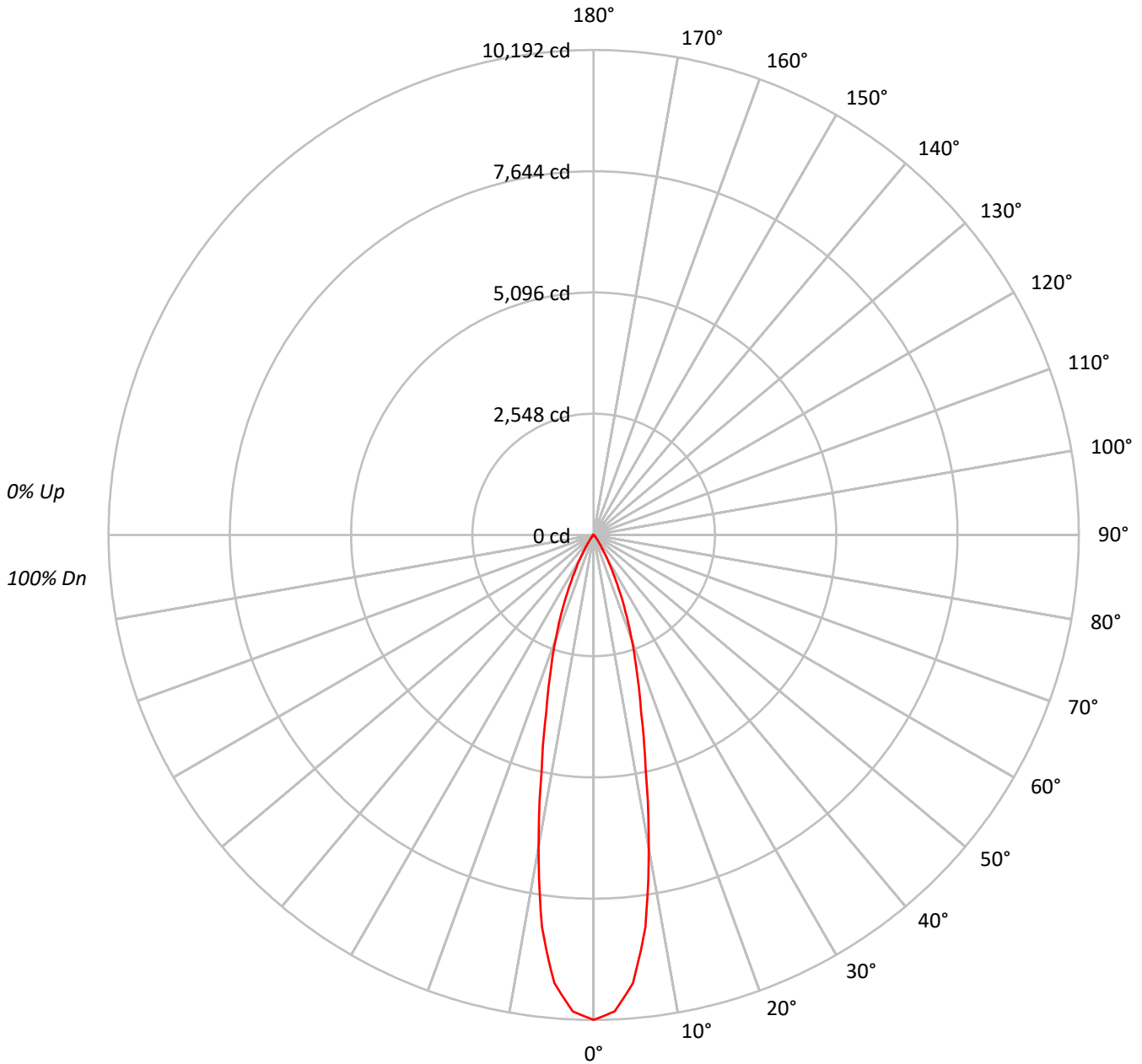
Lumens per Lamp: N/A
Luminaire Lumens: 2687.2 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (Ain): 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: 24 FT



TEST NUMBER: P747510
CATALOG NUMBER: LD4D40BD010-EU4DR2540509040-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P747510

CATALOG NUMBER: LD4D40BD010-EU4DR2540509040-4LBSQW1B

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			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89			
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85			
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79			
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1113597
5°	1037182
10°	739845
15°	435742
20°	271125
25°	148790
30°	68053
35°	25770
40°	11667
45°	7015
50°	2907
55°	1886
60°	1311
65°	879
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7015 cd/sqm



TEST NUMBER: P747510

CATALOG NUMBER: LD4D40BD010-EU4DR2540509040-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.7	30.2
10°-20°	1100.8	41.0
20°-30°	582.5	21.7
30°-40°	143.8	5.4
40°-50°	35.1	1.3
50°-60°	9.2	0.3
60°-70°	3.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	2496.0	92.9
0°-40°	2639.8	98.2
0°-60°	2684.1	99.9
0°-90°	2687.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10192	
5°	9457	813
15°	3852	1101
25°	1234	583
35°	193	144
45°	45	35
55°	10	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P747510
CATALOG NUMBER: LD4D40BD010-EU4DR2540509040-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	10192.1
2.5°	10024.6
5°	9456.6
7.5°	8315.3
10°	6668.5
12.5°	5041.0
15°	3852.2
17.5°	3002.2
20°	2331.8
22.5°	1748.7
25°	1234.2
27.5°	827.7
30°	539.4
32.5°	328.2
35°	193.2
37.5°	118.2
40°	81.8
42.5°	62.5
45°	45.4
47.5°	27.4
50°	17.1
52.5°	12.4
55°	9.9
57.5°	7.7
60°	6.0
62.5°	4.7
65°	3.4
67.5°	1.3
70°	0.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)