

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: P747775

Luminaire Tested: LD4D40BD010-EU4DR4540509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR4540509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3296.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

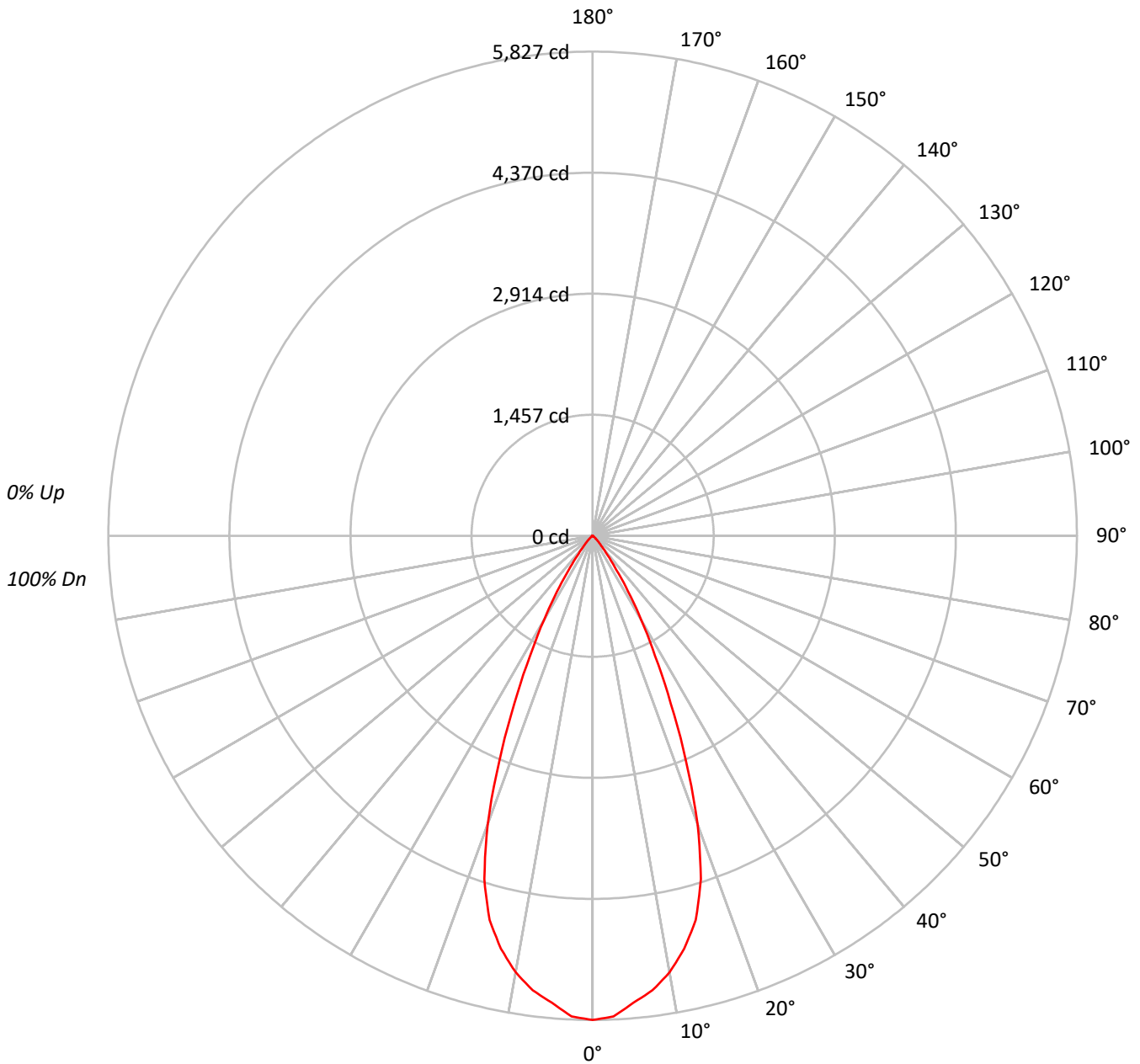
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P747775
CATALOG NUMBER: LD4D40BD010-EU4DR4540509027-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P747775

CATALOG NUMBER: LD4D40BD010-EU4DR4540509027-4LBDP1B

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	77	
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	73	
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60	60	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	636684
5°	618552
10°	591787
15°	541618
20°	429686
25°	268261
30°	147851
35°	66385
40°	26144
45°	12315
50°	5847
55°	3048
60°	1508
65°	362
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12315 cd/sqm



TEST NUMBER: P747775

CATALOG NUMBER: LD4D40BD010-EU4DR4540509027-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.9	16.1
10°-20°	1304.2	39.6
20°-30°	1032.8	31.3
30°-40°	343.9	10.4
40°-50°	68.2	2.1
50°-60°	15.5	0.5
60°-70°	2.3	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°	2866.8	87.0
0°-40°	3210.8	97.4
0°-60°	3294.5	99.9
0°-90°	3296.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3296.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5827	
5°	5640	530
15°	4788	1304
25°	2225	1033
35°	498	344
45°	80	68
55°	16	15
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P747775

CATALOG NUMBER: LD4D40BD010-EU4DR4540509027-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	5827.2
2.5°	5789.1
5°	5639.7
7.5°	5516.4
10°	5334.0
12.5°	5091.1
15°	4788.2
17.5°	4332.6
20°	3695.5
22.5°	2936.5
25°	2225.2
27.5°	1629.4
30°	1171.9
32.5°	797.0
35°	497.7
37.5°	295.2
40°	183.3
42.5°	120.5
45°	79.7
47.5°	51.3
50°	34.4
52.5°	22.9
55°	16.0
57.5°	10.5
60°	6.9
62.5°	3.7
65°	1.4
67.5°	0.5
70°	0.5
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)