

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: P747856

Luminaire Tested: LD4D40BD010-EU4DR5040509027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR5040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

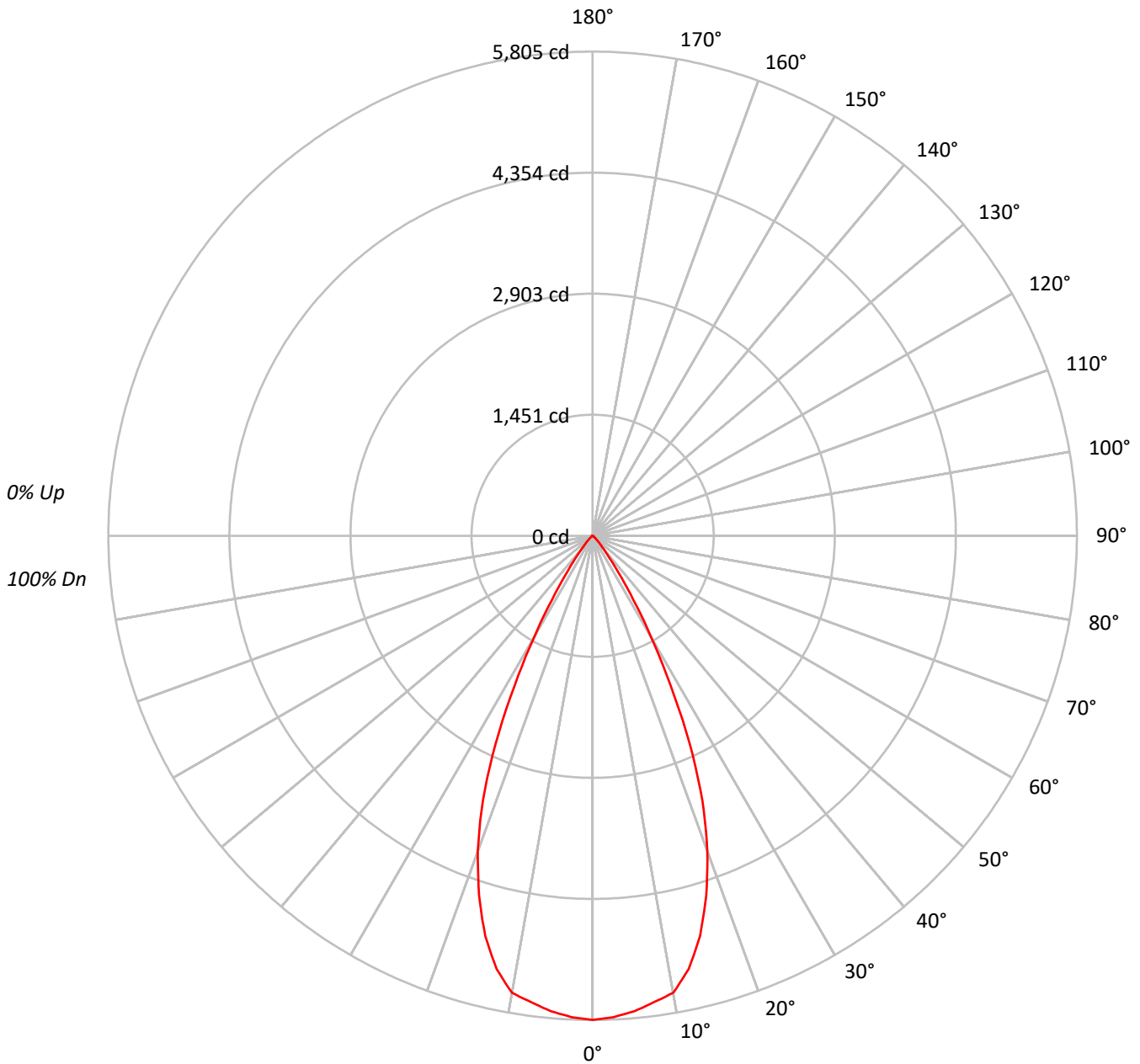


Downlight

TEST NUMBER: P747856

CATALOG NUMBER: LD4D40BD010-EU4DR5040509027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P747856

CATALOG NUMBER: LD4D40BD010-EU4DR5040509027-4LBDP1MW

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	50	30	10	0													
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	102	100														
	1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	97	97	97	97	95														
	2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	91	91	91	91	90														
	3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	86	86	86	86	85														
	4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	82	82	82	82	80														
	5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	77	77	77	77	76														
	6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	74	74	74	74	72														
	7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	70	70	70	70	69														
	8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	66	66	66	66	65														
	9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	63	63	63	63	62														
	10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	60	60	60	60	59														

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	634259
5°	627611
10°	617283
15°	562080
20°	467719
25°	332011
30°	175733
35°	71613
40°	26600
45°	12176
50°	4997
55°	2610
60°	1289
65°	388
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12176 cd/sqm



TEST NUMBER: P747856

CATALOG NUMBER: LD4D40BD010-EU4DR5040509027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.9	15.0
10°-20°	1366.9	37.9
20°-30°	1227.8	34.1
30°-40°	384.4	10.7
40°-50°	67.3	1.9
50°-60°	13.4	0.4
60°-70°	2.0	0.1
70°-80°	0.0	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°	3135.6	87.0
0°-40°	3520.0	97.7
0°-60°	3600.8	99.9
0°-90°	3602.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5805	
5°	5722	541
15°	4969	1367
25°	2754	1228
35°	537	384
45°	79	67
55°	14	13
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P747856

CATALOG NUMBER: LD4D40BD010-EU4DR5040509027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5805.0
2.5°	5776.2
5°	5722.3
7.5°	5640.1
10°	5563.8
12.5°	5319.0
15°	4969.1
17.5°	4524.7
20°	4022.6
22.5°	3441.6
25°	2754.0
27.5°	2024.7
30°	1392.9
32.5°	906.9
35°	536.9
37.5°	308.3
40°	186.5
42.5°	121.4
45°	78.8
47.5°	48.0
50°	29.4
52.5°	20.1
55°	13.7
57.5°	9.3
60°	5.9
62.5°	3.4
65°	1.5
67.5°	0.5
70°	0.0
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)