

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: P748009

Luminaire Tested: LD4D40BD010-EU4DR6040509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.7 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

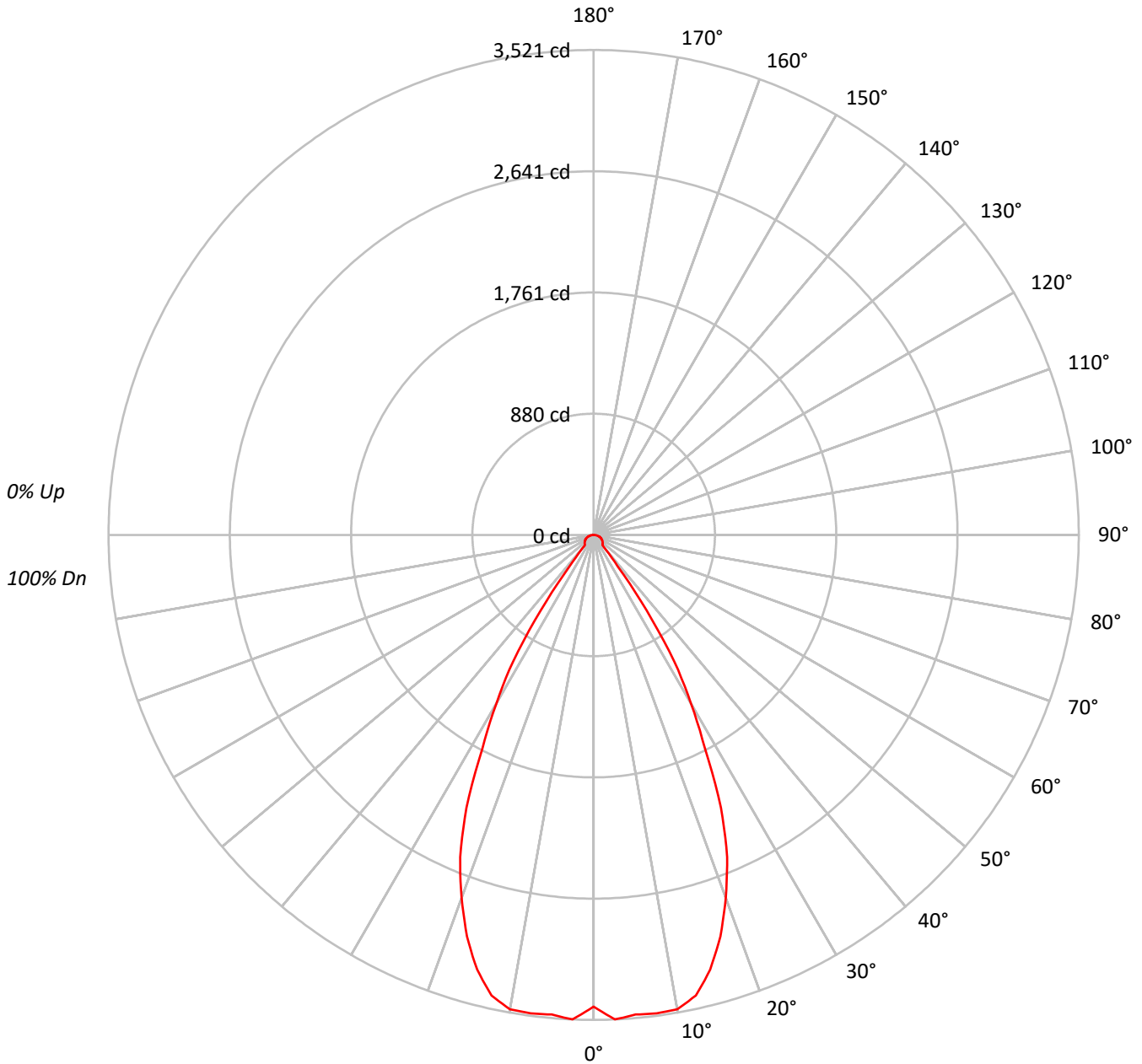
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748009
CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P748009

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBDP1B

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	374185
5°	383391
10°	388024
15°	369649
20°	325913
25°	263608
30°	178307
35°	89353
40°	14491
45°	14185
50°	14465
55°	14687
60°	15100
65°	15434
70°	15813
75°	16000
80°	15416
85°	12912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 16000 cd/sqm



TEST NUMBER: P748009

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	11.6
10°-20°	903.9	31.3
20°-30°	972.5	33.7
30°-40°	422.7	14.7
40°-50°	71.0	2.5
50°-60°	69.0	2.4
60°-70°	59.0	2.0
70°-80°	39.5	1.4
80°-90°	11.8	0.4
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°	2210.5	76.7
0°-40°	2633.3	91.3
0°-60°	2773.3	96.2
0°-90°	2883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3425	
5°	3496	334
15°	3268	904
25°	2187	973
35°	670	423
45°	92	71
55°	77	69
65°	60	59
75°	38	40
85°	10	12
90°	0	



TEST NUMBER: P748009

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3424.7
2.5°	3521.0
5°	3495.6
7.5°	3503.6
10°	3497.4
12.5°	3425.2
15°	3267.9
17.5°	3056.6
20°	2803.0
22.5°	2531.6
25°	2186.6
27.5°	1748.9
30°	1413.3
32.5°	1089.3
35°	669.9
37.5°	286.6
40°	101.6
42.5°	93.6
45°	91.8
47.5°	88.7
50°	85.1
52.5°	81.1
55°	77.1
57.5°	73.1
60°	69.1
62.5°	64.6
65°	59.7
67.5°	54.8
70°	49.5
72.5°	43.7
75°	37.9
77.5°	31.2
80°	24.5
82.5°	17.4
85°	10.3
87.5°	3.6
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)