

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: P747080

Luminaire Tested: LD4D35BD010-EU4DR5020359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747080
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: LD4D35BD010-EU4DR5020359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 3217.6 lumens
Efficiency: N/A
Efficacy: 104.5 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): 30.8
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

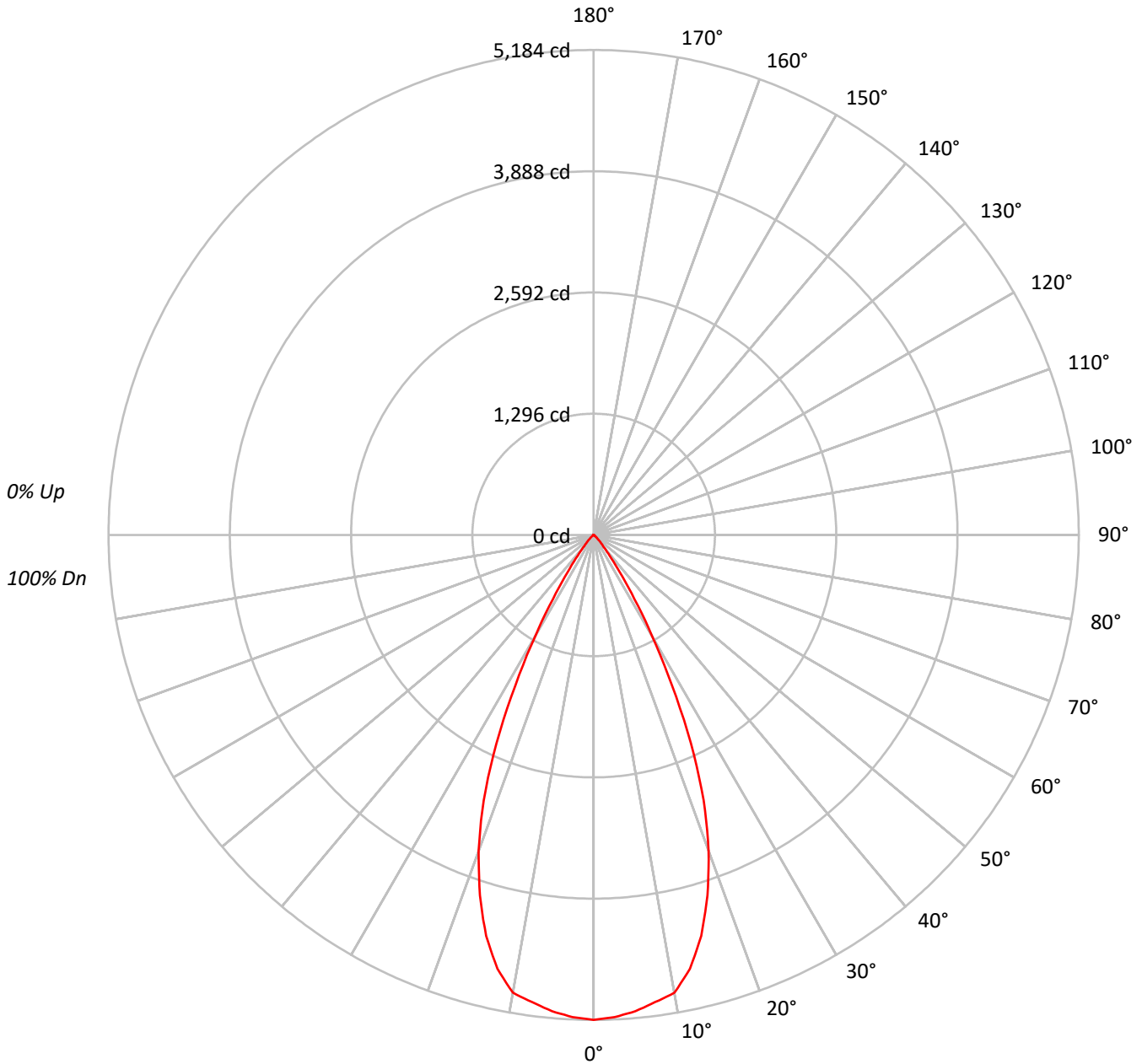


Downlight

TEST NUMBER: P747080

CATALOG NUMBER: LD4D35BD010-EU4DR5020359027-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P747080

CATALOG NUMBER: LD4D35BD010-EU4DR5020359027-4LBS1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	566462
5°	560521
10°	551292
15°	501993
20°	417710
25°	296519
30°	156947
35°	63957
40°	23748
45°	10878
50°	4453
55°	2324
60°	1136
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10878 cd/sqm



TEST NUMBER: P747080

CATALOG NUMBER: LD4D35BD010-EU4DR5020359027-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	15.0
10°-20°	1220.8	37.9
20°-30°	1096.6	34.1
30°-40°	343.3	10.7
40°-50°	60.1	1.9
50°-60°	12.0	0.4
60°-70°	1.8	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°	2800.4	87.0
0°-40°	3143.7	97.7
0°-60°	3215.8	99.9
0°-90°	3217.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5184	
5°	5111	483
15°	4438	1221
25°	2460	1097
35°	480	343
45°	70	60
55°	12	12
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P747080

CATALOG NUMBER: LD4D35BD010-EU4DR5020359027-4LBS1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5184.5
2.5°	5158.7
5°	5110.6
7.5°	5037.2
10°	4969.0
12.5°	4750.4
15°	4437.9
17.5°	4041.0
20°	3592.5
22.5°	3073.7
25°	2459.6
27.5°	1808.3
30°	1244.0
32.5°	809.9
35°	479.5
37.5°	275.4
40°	166.5
42.5°	108.4
45°	70.4
47.5°	42.8
50°	26.2
52.5°	17.9
55°	12.2
57.5°	8.3
60°	5.2
62.5°	3.1
65°	1.3
67.5°	0.4
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)