

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: P747412

Luminaire Tested: LD4D35BD010-EU4DR7020359035-4LBDP1H

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D35BD010-EU4DR7020359035-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3259.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

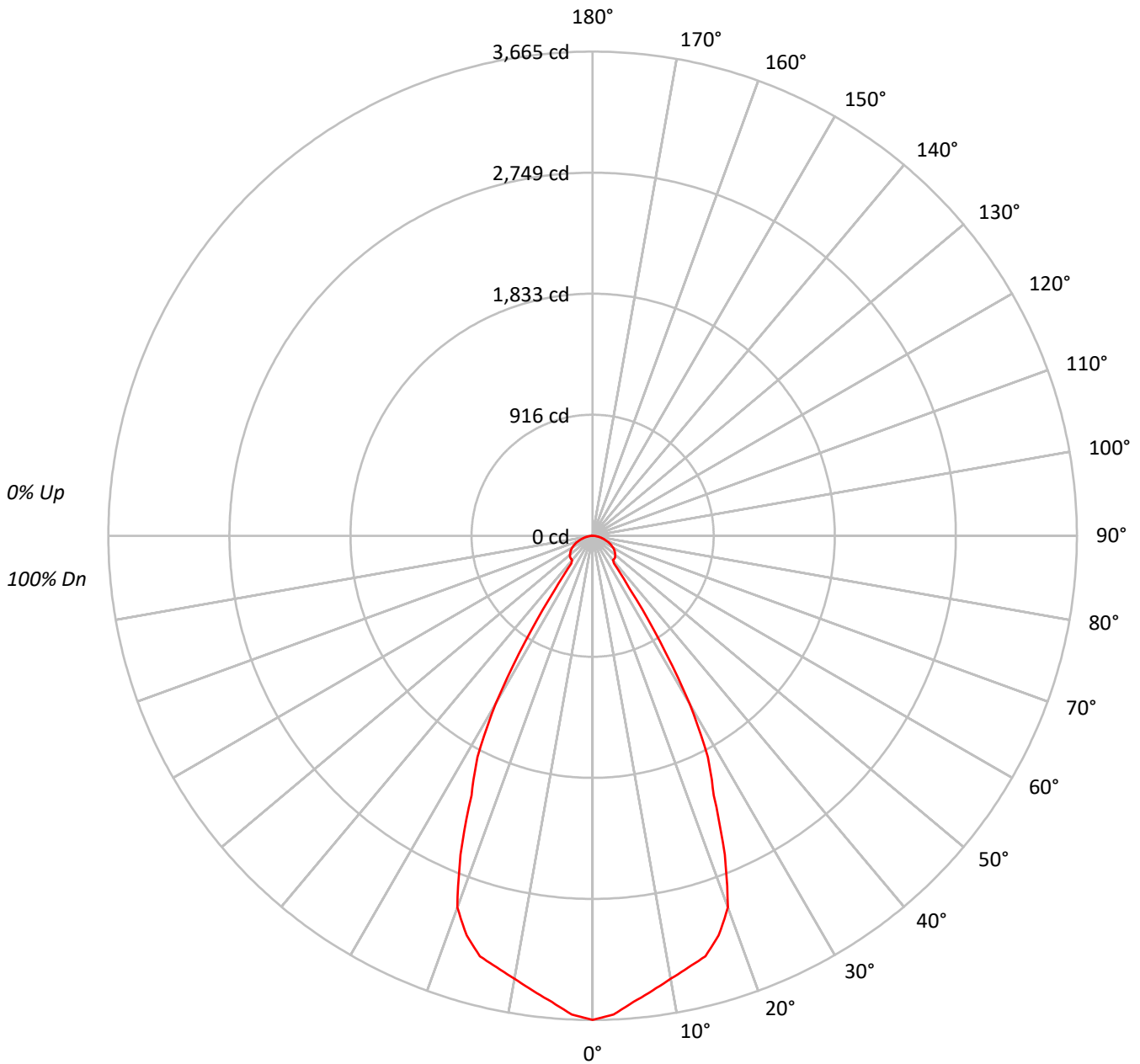
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P747412  
CATALOG NUMBER: LD4D35BD010-EU4DR7020359035-4LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P747412

CATALOG NUMBER: LD4D35BD010-EU4DR7020359035-4LBDP1H

**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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	400419
5°	388524
10°	377694
15°	372737
20°	348063
25°	261486
30°	184842
35°	65478
40°	34431
45°	36667
50°	37973
55°	38689
60°	38919
65°	38108
70°	35971
75°	33308
80°	29573
85°	23944

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 38942 cd/sqm



TEST NUMBER: P747412

CATALOG NUMBER: LD4D35BD010-EU4DR7020359035-4LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	10.3
10°-20°	916.5	28.1
20°-30°	1009.4	31.0
30°-40°	385.7	11.8
40°-50°	182.1	5.6
50°-60°	181.0	5.6
60°-70°	144.9	4.4
70°-80°	83.3	2.6
80°-90°	22.6	0.7
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°	2260.0	69.3
0°-40°	2645.7	81.2
0°-60°	3008.8	92.3
0°-90°	3259.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3665	
5°	3542	334
15°	3295	916
25°	2169	1009
35°	491	386
45°	237	182
55°	203	181
65°	147	145
75°	79	83
85°	19	23
90°	0	



TEST NUMBER: P747412

CATALOG NUMBER: LD4D35BD010-EU4DR7020359035-4LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3664.8
2.5°	3626.5
5°	3542.4
7.5°	3472.2
10°	3404.3
12.5°	3346.9
15°	3295.2
17.5°	3170.5
20°	2993.5
22.5°	2611.7
25°	2169.0
27.5°	1888.1
30°	1465.1
32.5°	946.4
35°	490.9
37.5°	265.2
40°	241.4
42.5°	239.6
45°	237.3
47.5°	232.1
50°	223.4
52.5°	213.5
55°	203.1
57.5°	191.5
60°	178.1
62.5°	163.0
65°	147.4
67.5°	130.0
70°	112.6
72.5°	95.2
75°	78.9
77.5°	62.1
80°	47.0
82.5°	33.1
85°	19.1
87.5°	7.5
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)