

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: P746774

Luminaire Tested: LD4D35BD010-EU4DR3020359030-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D35BD010-EU4DR3020359030-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2512.4 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

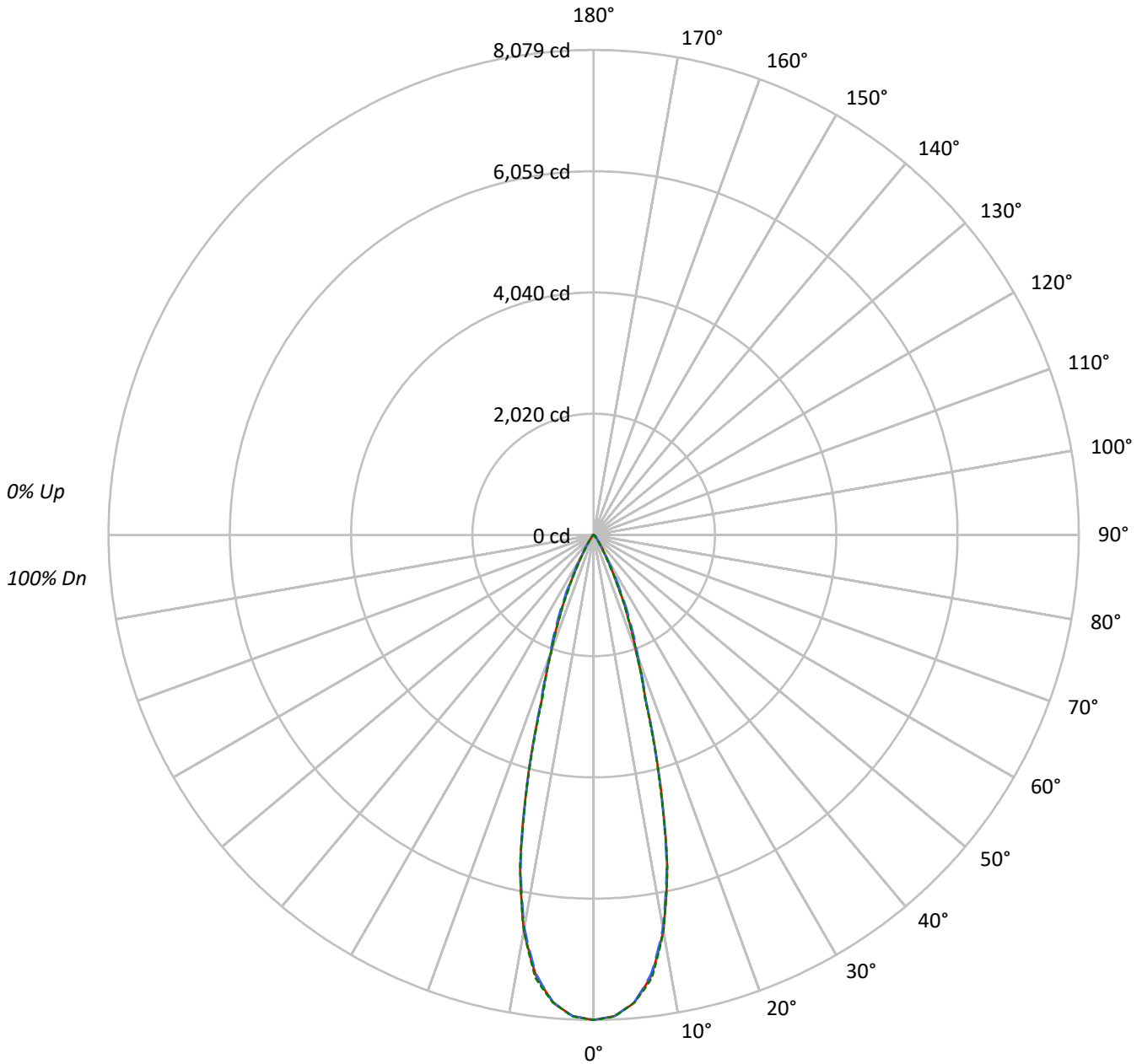
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P746774  
CATALOG NUMBER: LD4D35BD010-EU4DR3020359030-4LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P746774

CATALOG NUMBER: LD4D35BD010-EU4DR3020359030-4LBDP1B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	96	96	96		
	2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92	92	92		
	3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89	89	89		
	4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85	85	85	85	85	85		
	5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82	82	82	82	82	82		
	6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79	79	79	79	79	79		
	7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77	77	77	77	77	77		
	8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74		
	9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72		
	10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69	69	69		

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

	0°	45°	90°
0°	618363	618363	618363
5°	600610	599911	600641
10°	520224	516555	520099
15°	339416	337593	335898
20°	168776	175114	168548
25°	85022	95875	83274
30°	34037	37086	29662
35°	15792	15119	12671
40°	6815	7574	6425
45°	4806	5965	4850
50°	1655	4346	1750
55°	947	1802	1001
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5965 cd/sqm



TEST NUMBER: P746774

CATALOG NUMBER: LD4D35BD010-EU4DR3020359030-4LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.4	28.3
10°-20°	1144.1	45.5
20°-30°	494.4	19.7
30°-40°	112.7	4.5
40°-50°	38.7	1.5
50°-60°	9.4	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2348.9	93.5
0°-40°	2461.6	98.0
0°-60°	2509.7	99.9
0°-90°	2512.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8079	8079	8079	8079	8079	
5°	7817	7809	7808	7824	7817	711
15°	4283	4232	4260	4246	4239	1147
25°	1007	1045	1135	1018	986	482
35°	169	172	162	161	136	115
45°	44	55	55	55	45	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P746774

CATALOG NUMBER: LD4D35BD010-EU4DR3020359030-4LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8078.6	8078.6	8078.6	8078.6	8078.6
2.5°	8025.1	8019.5	8022.7	8026.7	8028.2
5°	7816.8	7809.3	7807.7	7824.0	7817.2
7.5°	7396.8	7386.1	7369.8	7406.7	7441.2
10°	6693.2	6681.3	6646.0	6663.4	6691.6
12.5°	5654.4	5615.9	5615.1	5670.7	5663.1
15°	4283.2	4231.7	4260.2	4246.4	4238.8
17.5°	2880.3	2860.5	2898.6	2887.1	2837.5
20°	2072.0	2077.2	2149.8	2113.3	2069.2
22.5°	1512.0	1530.6	1616.7	1522.7	1488.2
25°	1006.7	1044.7	1135.2	1018.2	986.0
27.5°	619.1	636.6	728.2	611.2	593.8
30°	385.1	376.4	419.6	360.1	335.6
32.5°	252.7	241.5	255.4	229.3	209.4
35°	169.0	172.5	161.8	160.6	135.6
37.5°	105.5	121.4	107.1	114.2	87.3
40°	68.2	88.1	75.8	83.7	64.3
42.5°	55.9	67.8	62.3	66.2	57.1
45°	44.4	55.1	55.1	55.1	44.8
47.5°	24.6	36.9	47.2	37.7	26.2
50°	13.9	18.6	36.5	19.4	14.7
52.5°	9.5	10.7	25.0	11.1	9.9
55°	7.1	7.5	13.5	7.9	7.5
57.5°	5.6	5.9	7.1	5.9	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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)