

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: P746802

Luminaire Tested: LD4D35BD010-EU4DR3020359040-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746802  
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-EU4DR3020359040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3466.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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

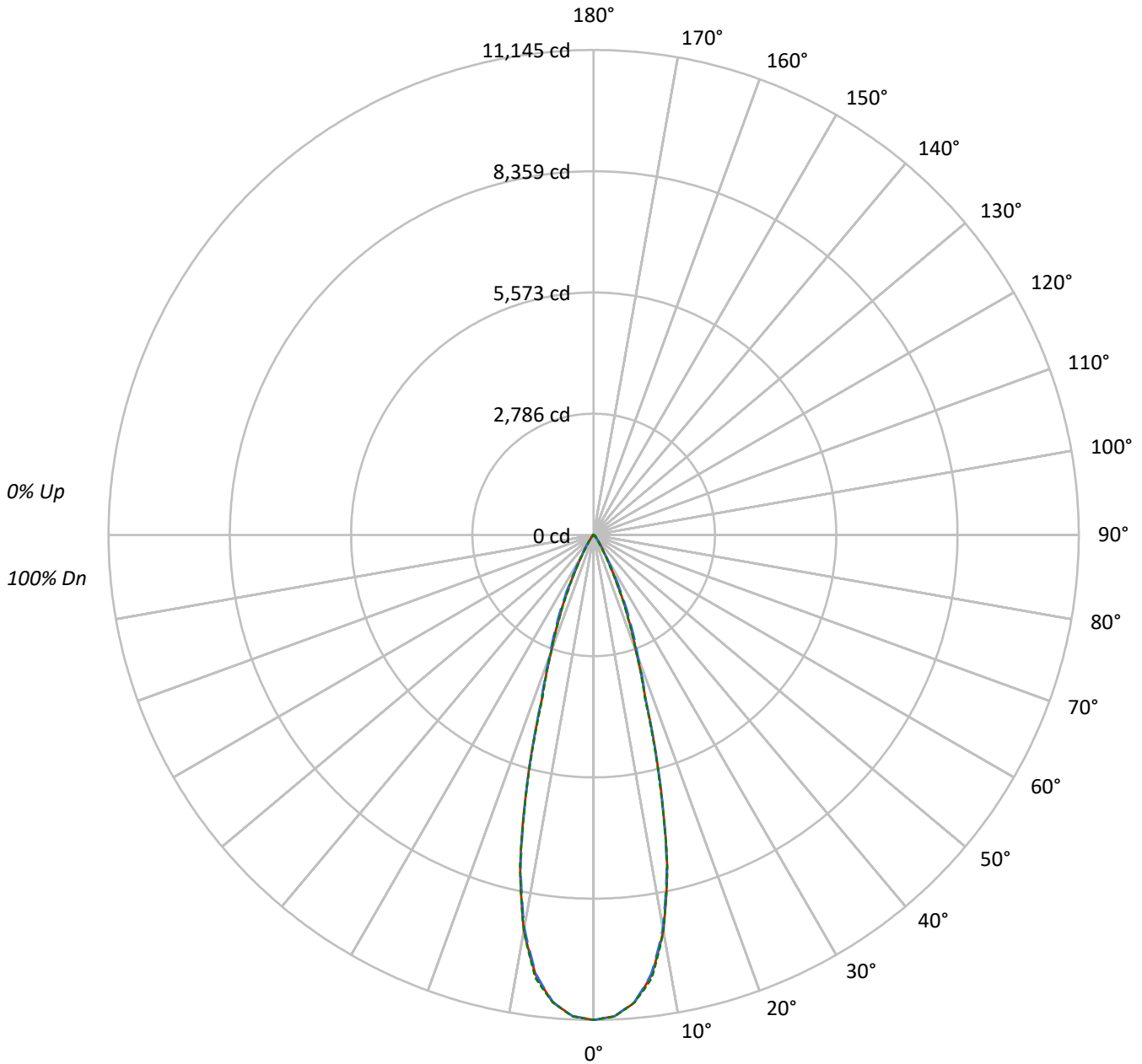


Downlight

TEST NUMBER: P746802

CATALOG NUMBER: LD4D35BD010-EU4DR3020359040-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P746802

CATALOG NUMBER: LD4D35BD010-EU4DR3020359040-4LBDP1LI

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

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

	0°	45°	90°
0°	853068	853068	853068
5°	828574	827606	828620
10°	717674	712614	717503
15°	468242	465730	463393
20°	232833	241573	232524
25°	117284	132259	114886
30°	46959	51166	40913
35°	21781	20856	17483
40°	9403	10442	8853
45°	6636	8238	6690
50°	2286	5990	2405
55°	1308	2482	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8238 cd/sqm



TEST NUMBER: P746802

CATALOG NUMBER: LD4D35BD010-EU4DR3020359040-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	980.0	28.3
10°-20°	1578.3	45.5
20°-30°	682.0	19.7
30°-40°	155.4	4.5
40°-50°	53.4	1.5
50°-60°	13.0	0.4
60°-70°	3.4	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°	3240.4	93.5
0°-40°	3395.8	98.0
0°-60°	3462.3	99.9
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11145	11145	11145	11145	11145	
5°	10784	10773	10771	10794	10784	981
15°	5909	5838	5877	5858	5848	1582
25°	1389	1441	1566	1405	1360	665
35°	233	238	223	222	187	158
45°	61	76	76	76	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P746802

CATALOG NUMBER: LD4D35BD010-EU4DR3020359040-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11144.9	11144.9	11144.9	11144.9	11144.9
2.5°	11071.0	11063.3	11067.7	11073.2	11075.4
5°	10783.7	10773.3	10771.1	10793.6	10784.3
7.5°	10204.3	10189.5	10167.1	10218.0	10265.6
10°	9233.6	9217.2	9168.5	9192.5	9231.4
12.5°	7800.5	7747.5	7746.4	7823.0	7812.6
15°	5908.9	5837.8	5877.2	5858.1	5847.7
17.5°	3973.6	3946.2	3998.8	3982.9	3914.5
20°	2858.4	2865.6	2965.7	2915.3	2854.6
22.5°	2085.8	2111.5	2230.3	2100.6	2053.0
25°	1388.7	1441.3	1566.0	1404.6	1360.3
27.5°	854.1	878.2	1004.6	843.2	819.1
30°	531.3	519.3	578.9	496.8	462.9
32.5°	348.6	333.2	352.4	316.3	288.9
35°	233.1	238.0	223.2	221.6	187.1
37.5°	145.5	167.4	147.7	157.6	120.4
40°	94.1	121.5	104.5	115.5	88.6
42.5°	77.2	93.6	85.9	91.4	78.8
45°	61.3	76.1	76.1	76.1	61.8
47.5°	33.9	50.9	65.1	52.0	36.1
50°	19.2	25.7	50.3	26.8	20.2
52.5°	13.1	14.8	34.5	15.3	13.7
55°	9.8	10.4	18.6	10.9	10.4
57.5°	7.7	8.2	9.8	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)