

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: P754595

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754595  
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: LD4D85BD010-EU4DR3070959035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

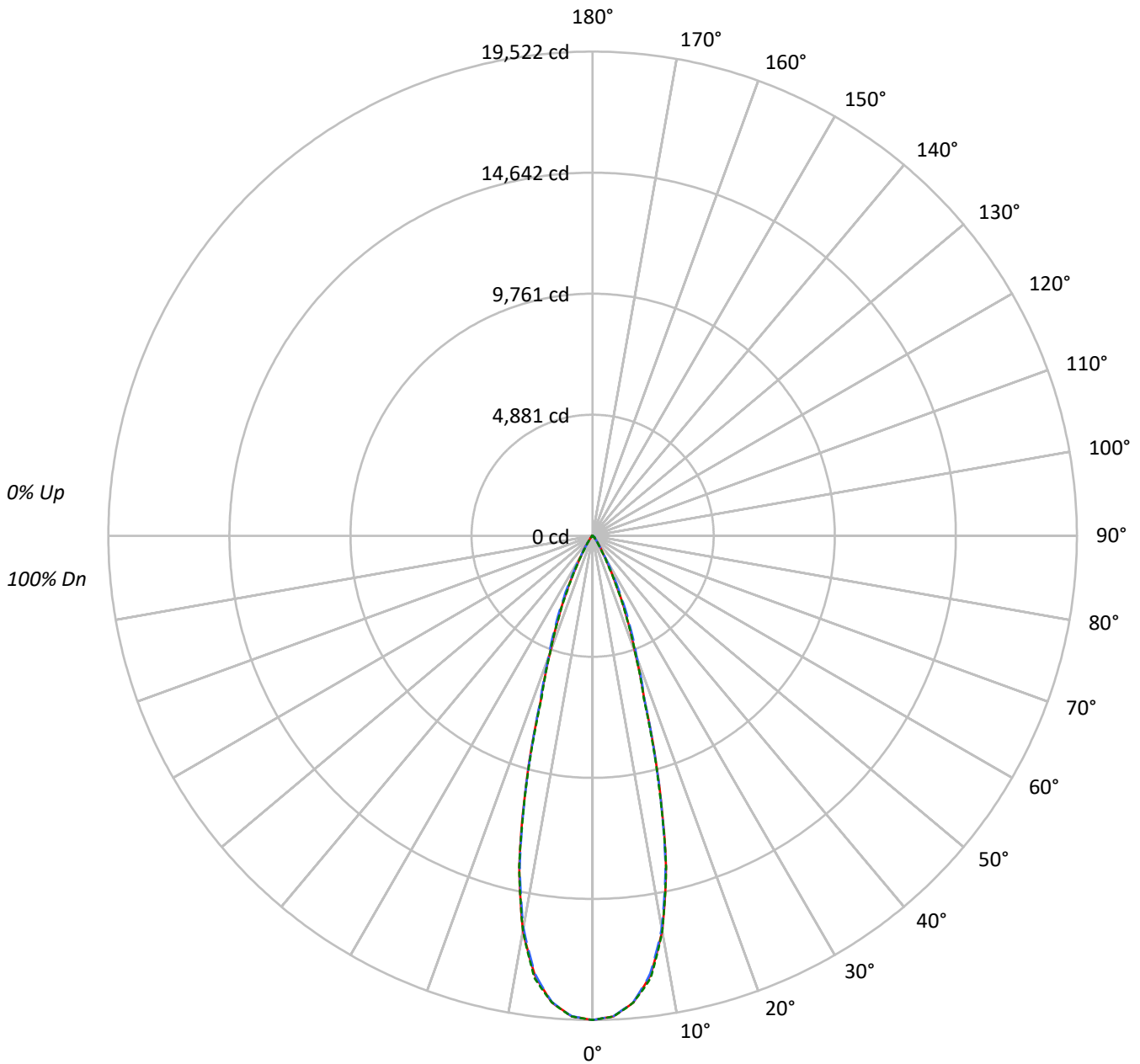
Lumens per Lamp: N/A  
Luminaire Lumens: 6071.4 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P754595  
CATALOG NUMBER: LD4D85BD010-EU4DR3070959035-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P754595

CATALOG NUMBER: LD4D85BD010-EU4DR3070959035-4LBSQW1B

**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	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°	1494311	1494311	1494311
5°	1451413	1449714	1451482
10°	1257142	1248274	1256847
15°	820226	815820	811716
20°	407857	423163	407311
25°	205448	231681	201242
30°	82260	89631	71671
35°	38152	36545	30630
40°	16477	18295	15518
45°	11626	14419	11723
50°	3989	10503	4227
55°	2309	4350	2429
60°	1607	1914	1607
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14419 cd/sqm



TEST NUMBER: P754595

CATALOG NUMBER: LD4D85BD010-EU4DR3070959035-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1716.7	28.3
10°-20°	2764.8	45.5
20°-30°	1194.7	19.7
30°-40°	272.3	4.5
40°-50°	93.5	1.5
50°-60°	22.8	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5676.2	93.5
0°-40°	5948.5	98.0
0°-60°	6064.8	99.9
0°-90°	6071.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6071.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19522	19522	19522	19522	19522	
5°	18890	18872	18868	18907	18891	1718
15°	10351	10226	10295	10262	10243	2772
25°	2433	2525	2743	2460	2383	1164
35°	408	417	391	388	328	277
45°	107	133	133	133	108	76
55°	17	18	33	19	18	17
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P754595

CATALOG NUMBER: LD4D85BD010-EU4DR3070959035-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19522.4	19522.4	19522.4	19522.4	19522.4
2.5°	19393.0	19379.6	19387.2	19396.8	19400.6
5°	18889.8	18871.6	18867.7	18907.0	18890.7
7.5°	17874.7	17848.9	17809.6	17898.7	17982.1
10°	16174.4	16145.6	16060.3	16102.5	16170.6
12.5°	13664.1	13571.2	13569.2	13703.4	13685.2
15°	10350.7	10226.0	10295.1	10261.5	10243.3
17.5°	6960.5	6912.6	7004.6	6976.8	6857.0
20°	5007.1	5019.6	5195.0	5106.8	5000.4
22.5°	3653.7	3698.8	3906.8	3679.6	3596.2
25°	2432.6	2524.6	2743.2	2460.4	2382.8
27.5°	1496.2	1538.4	1759.8	1477.0	1434.8
30°	930.7	909.6	1014.1	870.3	810.9
32.5°	610.6	583.7	617.3	554.0	506.1
35°	408.3	416.9	391.1	388.2	327.8
37.5°	255.0	293.3	258.8	276.0	210.9
40°	164.9	212.8	183.1	202.2	155.3
42.5°	135.1	163.9	150.5	160.1	138.0
45°	107.4	133.2	133.2	133.2	108.3
47.5°	59.4	89.1	114.1	91.1	63.3
50°	33.5	45.0	88.2	47.0	35.5
52.5°	23.0	25.9	60.4	26.8	24.0
55°	17.3	18.2	32.6	19.2	18.2
57.5°	13.4	14.4	17.3	14.4	13.4
60°	10.5	10.5	12.5	11.5	10.5
62.5°	7.7	7.7	8.6	7.7	7.7
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)