

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: P754439

Luminaire Tested: LD4D80BD010-EU4DR7070959035-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754439  
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: LD4D80BD010-EU4DR7070959035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

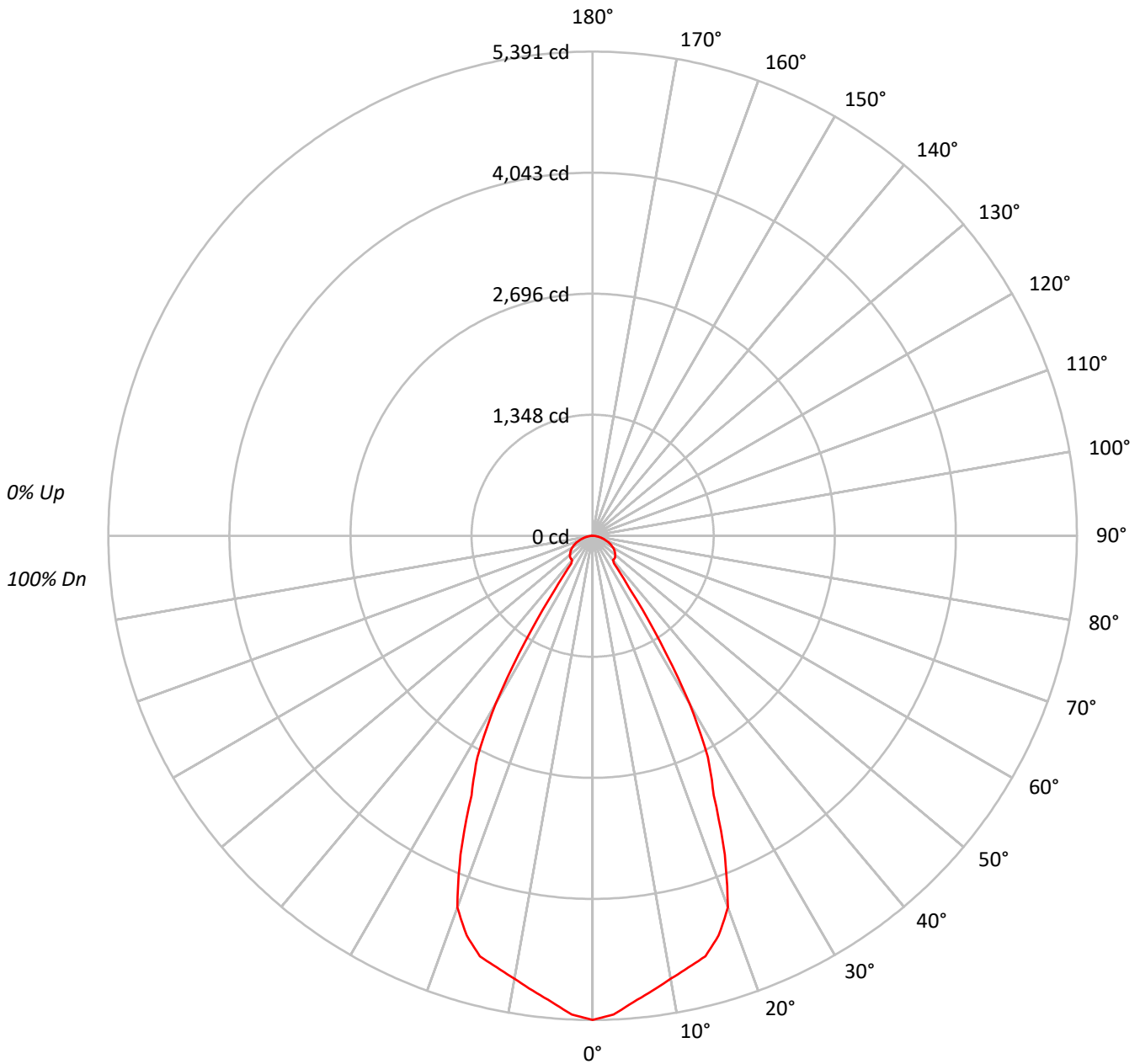
Lumens per Lamp: N/A  
Luminaire Lumens: 4795.2 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.9  
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: P754439  
CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P754439

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBSQW1B

**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	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°	589047
5°	571544
10°	555619
15°	548325
20°	512019
25°	384658
30°	271920
35°	96316
40°	50648
45°	53942
50°	55855
55°	56919
60°	57253
65°	56050
70°	52902
75°	49012
80°	43478
85°	35352

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 57284 cd/sqm



TEST NUMBER: P754439

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.5	10.3
10°-20°	1348.2	28.1
20°-30°	1484.9	31.0
30°-40°	567.3	11.8
40°-50°	267.9	5.6
50°-60°	266.3	5.6
60°-70°	213.2	4.4
70°-80°	122.5	2.6
80°-90°	33.3	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°	3324.6	69.3
0°-40°	3892.0	81.2
0°-60°	4426.1	92.3
0°-90°	4795.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5391	
5°	5211	492
15°	4848	1348
25°	3191	1485
35°	722	567
45°	349	268
55°	299	266
65°	217	213
75°	116	123
85°	28	33
90°	0	



TEST NUMBER: P754439

CATALOG NUMBER: LD4D80BD010-EU4DR7070959035-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5391.2
2.5°	5334.9
5°	5211.1
7.5°	5107.8
10°	5008.0
12.5°	4923.5
15°	4847.5
17.5°	4664.0
20°	4403.6
22.5°	3842.0
25°	3190.7
27.5°	2777.6
30°	2155.3
32.5°	1392.2
35°	722.1
37.5°	390.1
40°	355.1
42.5°	352.5
45°	349.1
47.5°	341.4
50°	328.6
52.5°	314.1
55°	298.8
57.5°	281.7
60°	262.0
62.5°	239.9
65°	216.8
67.5°	191.2
70°	165.6
72.5°	140.0
75°	116.1
77.5°	91.3
80°	69.1
82.5°	48.7
85°	28.2
87.5°	11.1
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)