

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: P748108

Luminaire Tested: LD4D40BD010-EU4DR6540509030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6540509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

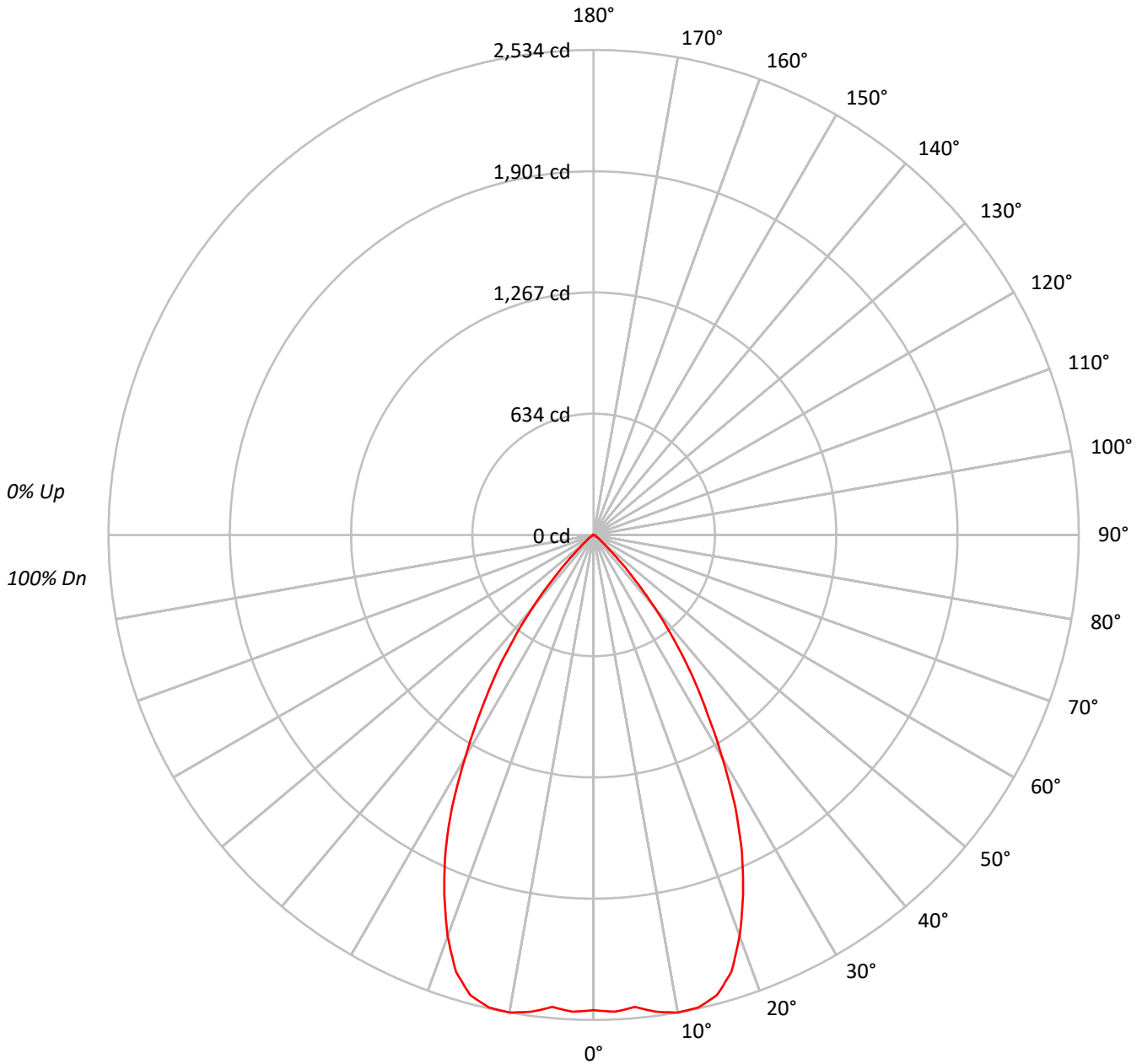
Lumens per Lamp: N/A
Luminaire Lumens: 2522.6 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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: P748108
CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P748108

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBSQW1B

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	271360
5°	271585
10°	281149
15°	281611
20°	259265
25°	220907
30°	169109
35°	119471
40°	70530
45°	28632
50°	10386
55°	5791
60°	3322
65°	1836
70°	1917
75°	1478
80°	1573
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28632 cd/sqm



TEST NUMBER: P748108

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	9.5
10°-20°	689.8	27.3
20°-30°	827.7	32.8
30°-40°	556.2	22.0
40°-50°	166.5	6.6
50°-60°	29.4	1.2
60°-70°	8.4	0.3
70°-80°	4.1	0.2
80°-90°	1.3	0.1
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°	1756.7	69.6
0°-40°	2312.9	91.7
0°-60°	2508.8	99.5
0°-90°	2522.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2484	
5°	2476	239
15°	2490	690
25°	1832	828
35°	896	556
45°	185	167
55°	30	29
65°	7	8
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P748108

CATALOG NUMBER: LD4D40BD010-EU4DR6540509030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	2483.6
2.5°	2494.2
5°	2476.2
7.5°	2513.6
10°	2534.1
12.5°	2529.1
15°	2489.6
17.5°	2392.9
20°	2229.8
22.5°	2037.8
25°	1832.4
27.5°	1600.6
30°	1340.4
32.5°	1104.7
35°	895.7
37.5°	689.3
40°	494.5
42.5°	322.9
45°	185.3
47.5°	98.1
50°	61.1
52.5°	42.4
55°	30.4
57.5°	21.9
60°	15.2
62.5°	9.9
65°	7.1
67.5°	6.4
70°	6.0
72.5°	4.6
75°	3.5
77.5°	3.2
80°	2.5
82.5°	1.8
85°	1.1
87.5°	0.7
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)