

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: P780552

Luminaire Tested: LER4D25D010-EC4DR4520359050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR4520359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (A_{in}): 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



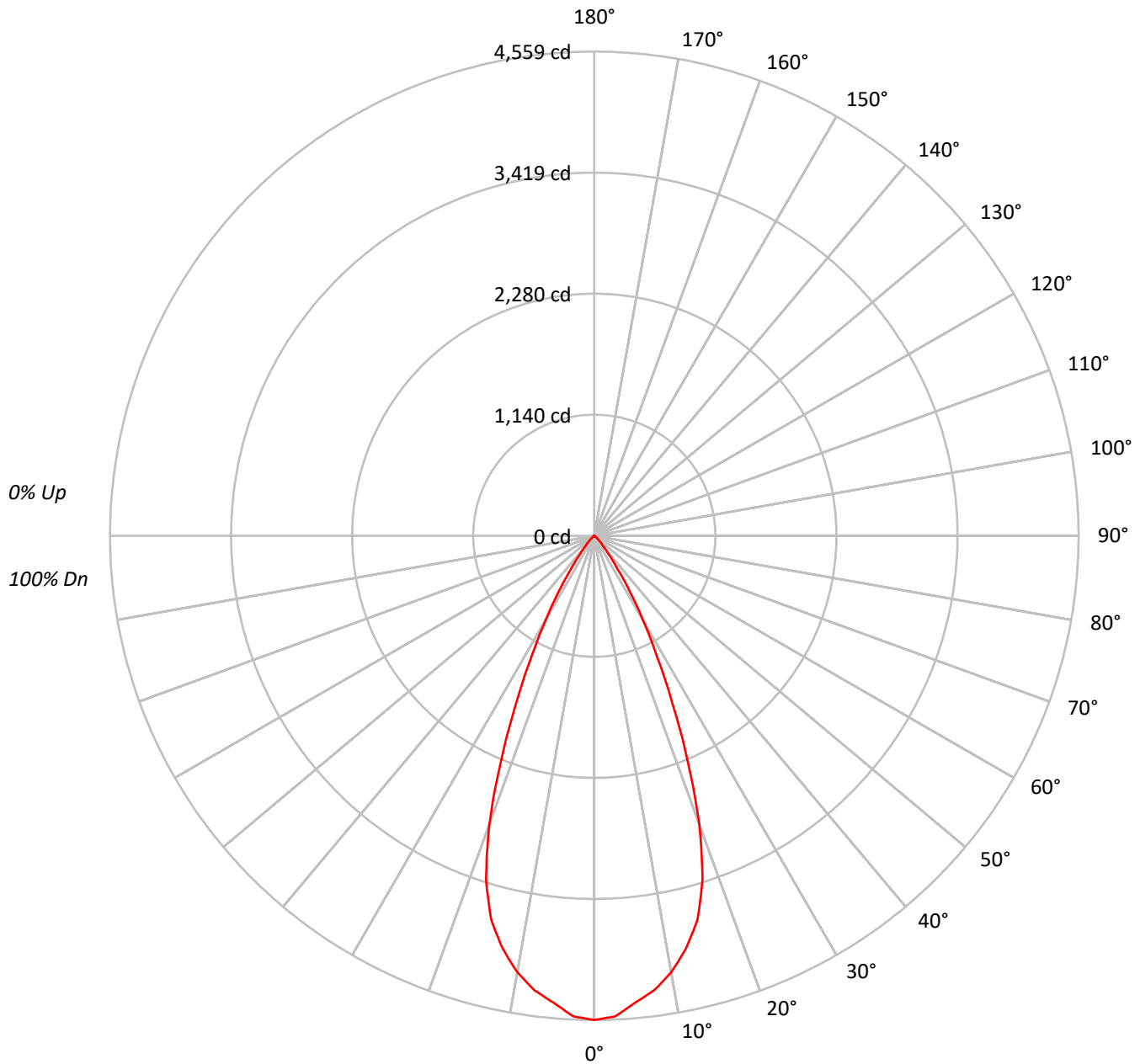
Downlight



TEST NUMBER: P780552

CATALOG NUMBER: LER4D25D010-EC4DR4520359050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780552

CATALOG NUMBER: LER4D25D010-EC4DR4520359050-4LBS1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	498109
5°	483922
10°	462979
15°	423729
20°	336156
25°	209876
30°	115667
35°	51939
40°	20453
45°	9642
50°	4572
55°	2381
60°	1180
65°	284
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9642 cd/sqm



TEST NUMBER: P780552

CATALOG NUMBER: LER4D25D010-EC4DR4520359050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	16.1
10°-20°	1020.3	39.6
20°-30°	808.0	31.3
30°-40°	269.0	10.4
40°-50°	53.4	2.1
50°-60°	12.1	0.5
60°-70°	1.7	0.1
70°-80°	0.0	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°	2242.8	87.0
0°-40°	2511.9	97.4
0°-60°	2577.4	99.9
0°-90°	2579.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4559	
5°	4412	415
15°	3746	1020
25°	1741	808
35°	389	269
45°	62	53
55°	12	12
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780552

CATALOG NUMBER: LER4D25D010-EC4DR4520359050-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4558.9
2.5°	4529.1
5°	4412.2
7.5°	4315.7
10°	4173.0
12.5°	3983.0
15°	3746.0
17.5°	3389.5
20°	2891.1
22.5°	2297.4
25°	1740.9
27.5°	1274.7
30°	916.8
32.5°	623.5
35°	389.4
37.5°	230.9
40°	143.4
42.5°	94.3
45°	62.4
47.5°	40.2
50°	26.9
52.5°	17.9
55°	12.5
57.5°	8.3
60°	5.4
62.5°	2.9
65°	1.1
67.5°	0.3
70°	0.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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°







(END OF REPORT)