

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: P780536

Luminaire Tested: LER4D25D010-EC4DR4520359027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780536
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-EC4DR4520359027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330.0 lumens
Efficiency: N/A
Efficacy: 92.8 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



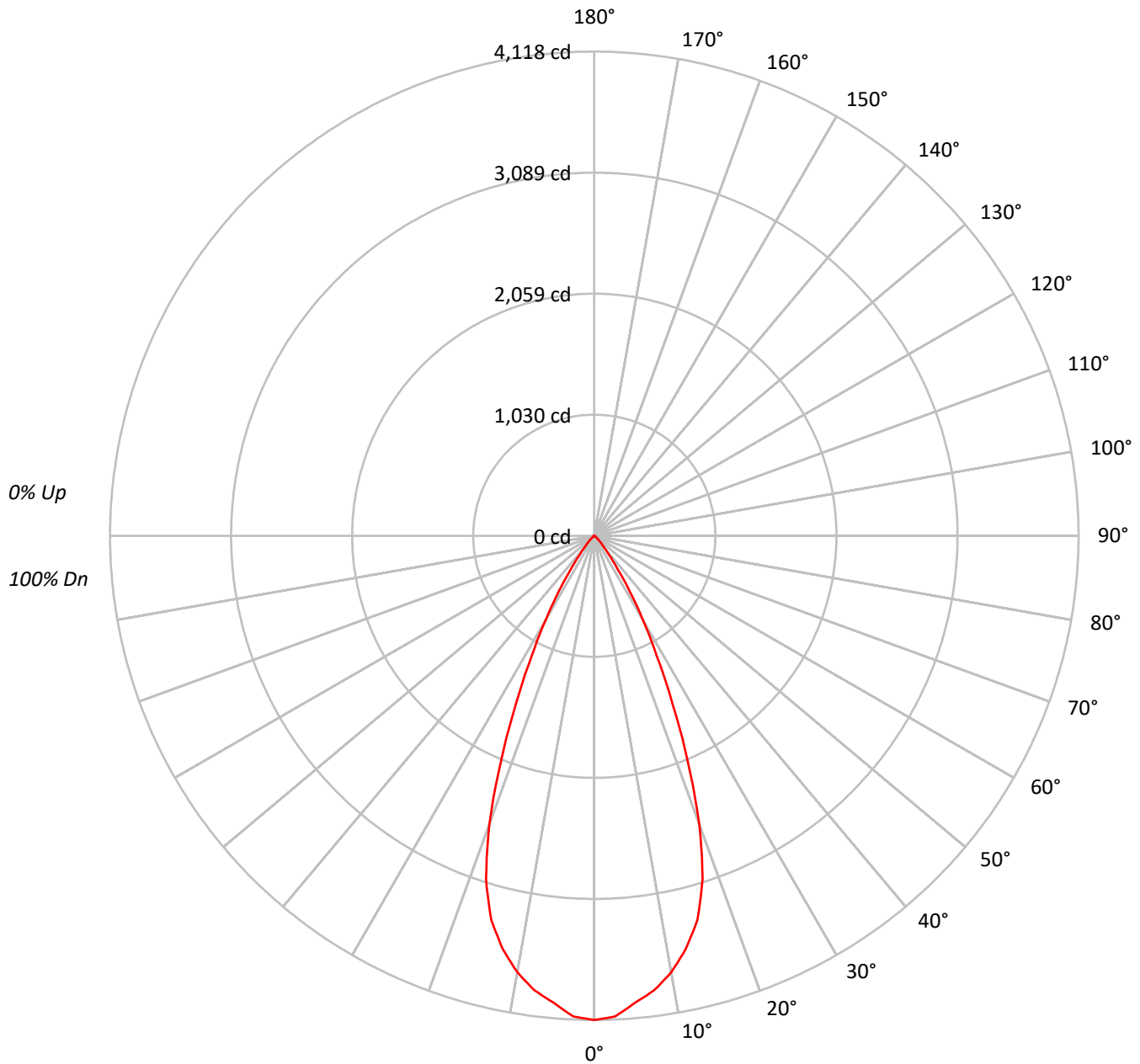
Downlight



TEST NUMBER: P780536

CATALOG NUMBER: LER4D25D010-EC4DR4520359027-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P780536

CATALOG NUMBER: LER4D25D010-EC4DR4520359027-4LBS1B

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95		
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	449969
5°	437155
10°	418234
15°	382781
20°	303670
25°	189586
30°	104501
35°	46924
40°	18471
45°	8715
50°	4131
55°	2153
60°	1071
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm



TEST NUMBER: P780536

CATALOG NUMBER: LER4D25D010-EC4DR4520359027-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.5	16.1
10°-20°	921.7	39.6
20°-30°	729.9	31.3
30°-40°	243.1	10.4
40°-50°	48.2	2.1
50°-60°	10.9	0.5
60°-70°	1.6	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°	2026.1	87.0
0°-40°	2269.2	97.4
0°-60°	2328.3	99.9
0°-90°	2330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4118	
5°	3986	375
15°	3384	922
25°	1573	730
35°	352	243
45°	56	48
55°	11	11
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780536

CATALOG NUMBER: LER4D25D010-EC4DR4520359027-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4118.3
2.5°	4091.4
5°	3985.8
7.5°	3898.6
10°	3769.7
12.5°	3598.1
15°	3384.0
17.5°	3062.0
20°	2611.7
22.5°	2075.3
25°	1572.6
27.5°	1151.5
30°	828.3
32.5°	563.3
35°	351.8
37.5°	208.6
40°	129.5
42.5°	85.2
45°	56.4
47.5°	36.3
50°	24.3
52.5°	16.2
55°	11.3
57.5°	7.4
60°	4.9
62.5°	2.6
65°	1.0
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





— 0°-180°







(END OF REPORT)