

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: P784842

Luminaire Tested: LER4DD40BD010-EC4DR7040509035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784842
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: LER4DD40BD010-EC4DR7040509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4029.2 lumens
Efficiency: N/A
Efficacy: 114.5 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): 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

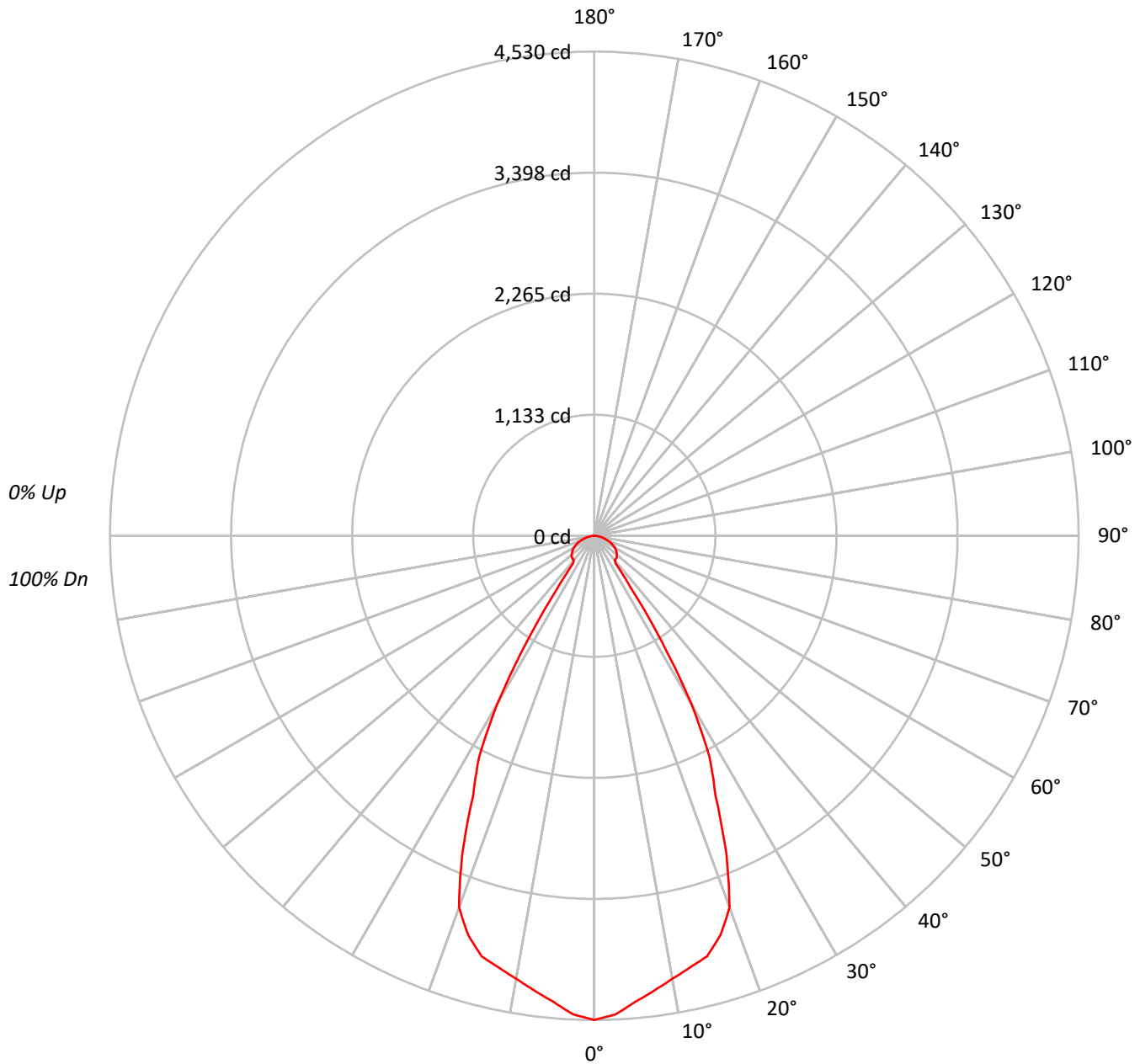


Downlight

TEST NUMBER: P784842

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509035-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P784842

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509035-4LBDP1LI

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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	494951
5°	480248
10°	466862
15°	460729
20°	430233
25°	323210
30°	228482
35°	80937
40°	42561
45°	45320
50°	46931
55°	47813
60°	48118
65°	47105
70°	44436
75°	41160
80°	36557
85°	29711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 48133 cd/sqm



TEST NUMBER: P784842

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509035-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.0	10.3
10°-20°	1132.8	28.1
20°-30°	1247.7	31.0
30°-40°	476.7	11.8
40°-50°	225.1	5.6
50°-60°	223.8	5.6
60°-70°	179.2	4.4
70°-80°	102.9	2.6
80°-90°	28.0	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°	2793.5	69.3
0°-40°	3270.2	81.2
0°-60°	3719.1	92.3
0°-90°	4029.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4530	
5°	4379	413
15°	4073	1133
25°	2681	1248
35°	607	477
45°	293	225
55°	251	224
65°	182	179
75°	98	103
85°	24	28
90°	0	



TEST NUMBER: P784842

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509035-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	4530.0
2.5°	4482.7
5°	4378.7
7.5°	4291.9
10°	4208.0
12.5°	4137.0
15°	4073.1
17.5°	3918.9
20°	3700.2
22.5°	3228.2
25°	2681.0
27.5°	2333.8
30°	1811.0
32.5°	1169.8
35°	606.8
37.5°	327.8
40°	298.4
42.5°	296.2
45°	293.3
47.5°	286.9
50°	276.1
52.5°	263.9
55°	251.0
57.5°	236.7
60°	220.2
62.5°	201.5
65°	182.2
67.5°	160.7
70°	139.1
72.5°	117.6
75°	97.5
77.5°	76.7
80°	58.1
82.5°	40.9
85°	23.7
87.5°	9.3
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)