

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: P784716

Luminaire Tested: LER4DD40BD010-EC4DR4540509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784716
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: LER4DD40BD010-EC4DR4540509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396.5 lumens
Efficiency: N/A
Efficacy: 96.5 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): 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

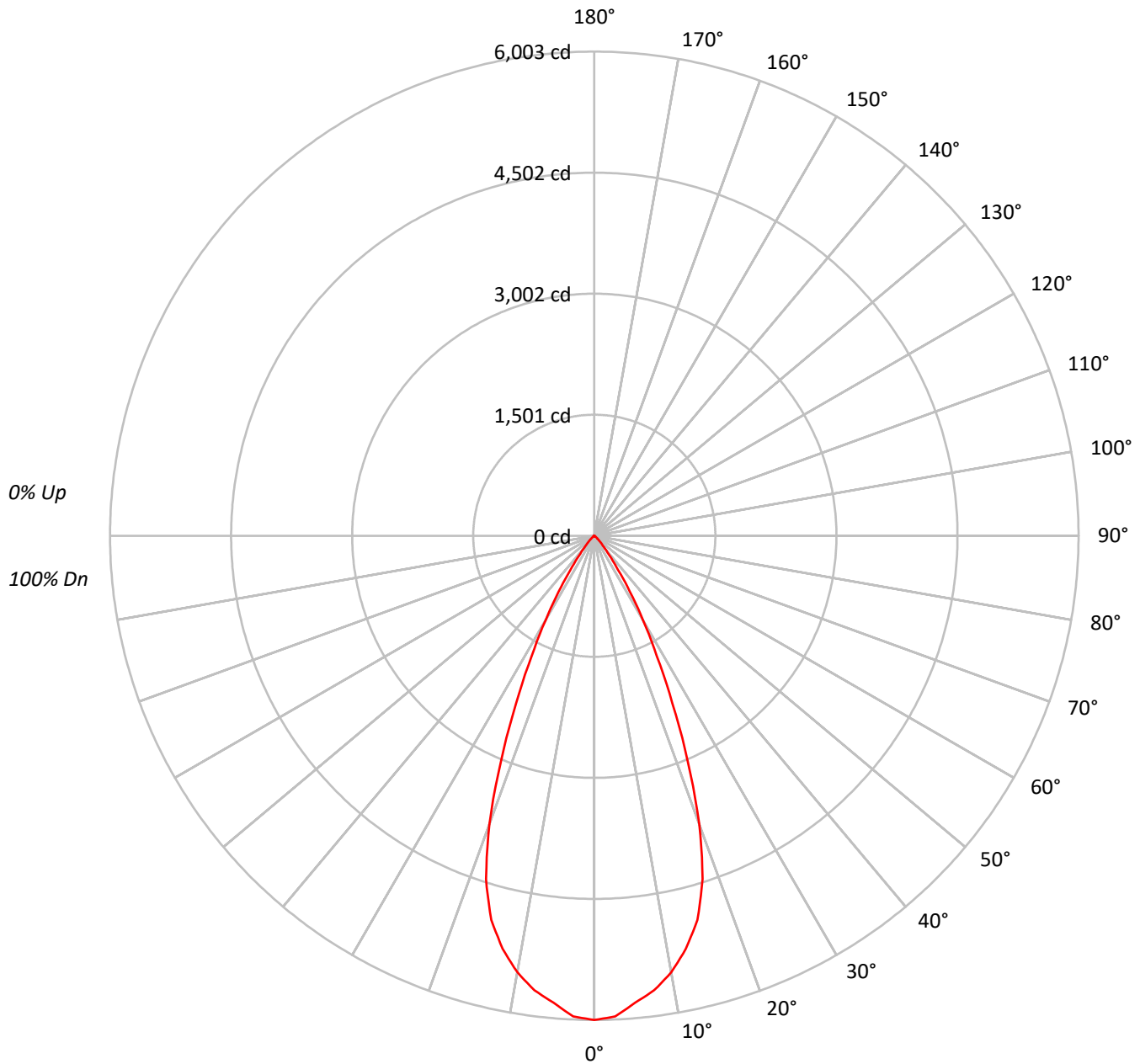


Downlight

TEST NUMBER: P784716

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P784716

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509030-4LBDP1B

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°	655925
5°	637252
10°	609672
15°	557985
20°	442674
25°	276362
30°	152330
35°	68399
40°	26943
45°	12701
50°	6017
55°	3143
60°	1552
65°	362
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12701 cd/sqm



TEST NUMBER: P784716

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.9	16.1
10°-20°	1343.6	39.6
20°-30°	1064.0	31.3
30°-40°	354.3	10.4
40°-50°	70.3	2.1
50°-60°	16.0	0.5
60°-70°	2.3	0.1
70°-80°	0.1	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°	2953.5	87.0
0°-40°	3307.8	97.4
0°-60°	3394.1	99.9
0°-90°	3396.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6003	
5°	5810	546
15°	4933	1344
25°	2292	1064
35°	513	354
45°	82	70
55°	16	16
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784716

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	6003.3
2.5°	5964.1
5°	5810.2
7.5°	5683.1
10°	5495.2
12.5°	5245.0
15°	4932.9
17.5°	4463.5
20°	3807.2
22.5°	3025.3
25°	2292.4
27.5°	1678.6
30°	1207.4
32.5°	821.1
35°	512.8
37.5°	304.1
40°	188.9
42.5°	124.2
45°	82.2
47.5°	52.9
50°	35.4
52.5°	23.6
55°	16.5
57.5°	10.9
60°	7.1
62.5°	3.8
65°	1.4
67.5°	0.5
70°	0.5
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)