

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: P784714

Luminaire Tested: LER4DD40BD010-EC4DR4540509027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784714
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-EC4DR4540509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

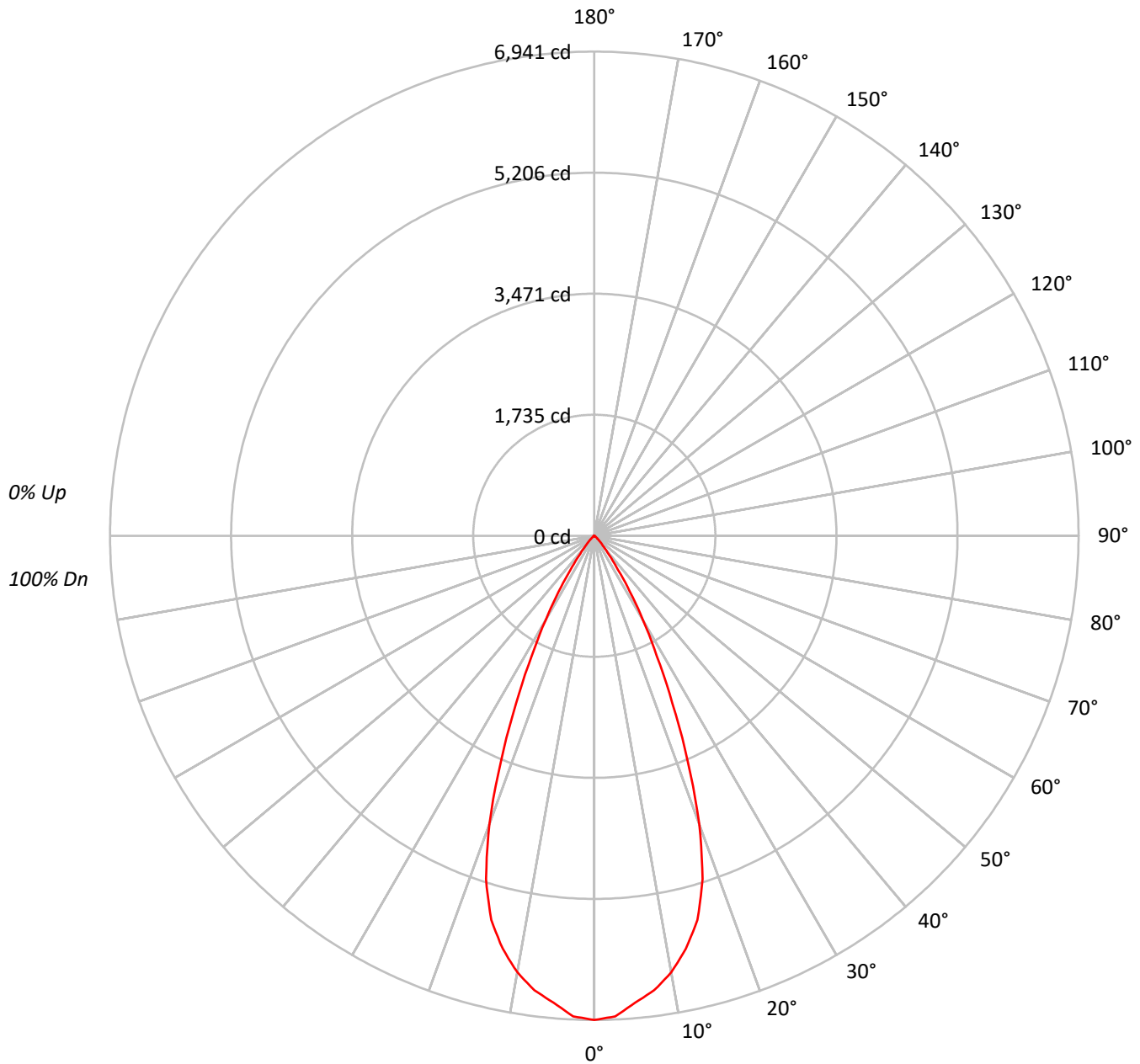


Downlight

TEST NUMBER: P784714

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509027-4LBDP1LI

Luminous Intensity Polar Plot



TEST NUMBER: P784714

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509027-4LBDP1LI

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	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°	758379
5°	736785
10°	704908
15°	645140
20°	511822
25°	319533
30°	176124
35°	79083
40°	31150
45°	14679
50°	6952
55°	3638
60°	1792
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14679 cd/sqm

TEST NUMBER: P784714

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509027-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.2	16.1
10°-20°	1553.5	39.6
20°-30°	1230.2	31.3
30°-40°	409.7	10.4
40°-50°	81.3	2.1
50°-60°	18.5	0.5
60°-70°	2.6	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°	3414.8	87.0
0°-40°	3824.5	97.4
0°-60°	3924.3	99.9
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6941	
5°	6718	631
15°	5703	1553
25°	2650	1230
35°	593	410
45°	95	81
55°	19	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784714

CATALOG NUMBER: LER4DD40BD010-EC4DR4540509027-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6941.0
2.5°	6895.7
5°	6717.7
7.5°	6570.9
10°	6353.6
12.5°	6064.3
15°	5703.4
17.5°	5160.7
20°	4401.9
22.5°	3497.8
25°	2650.5
27.5°	1940.8
30°	1396.0
32.5°	949.4
35°	592.9
37.5°	351.6
40°	218.4
42.5°	143.6
45°	95.0
47.5°	61.1
50°	40.9
52.5°	27.3
55°	19.1
57.5°	12.6
60°	8.2
62.5°	4.4
65°	1.6
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)