

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: P784738

Luminaire Tested: LER4DD40BD010-EC4DR5040509027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR5040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3977.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

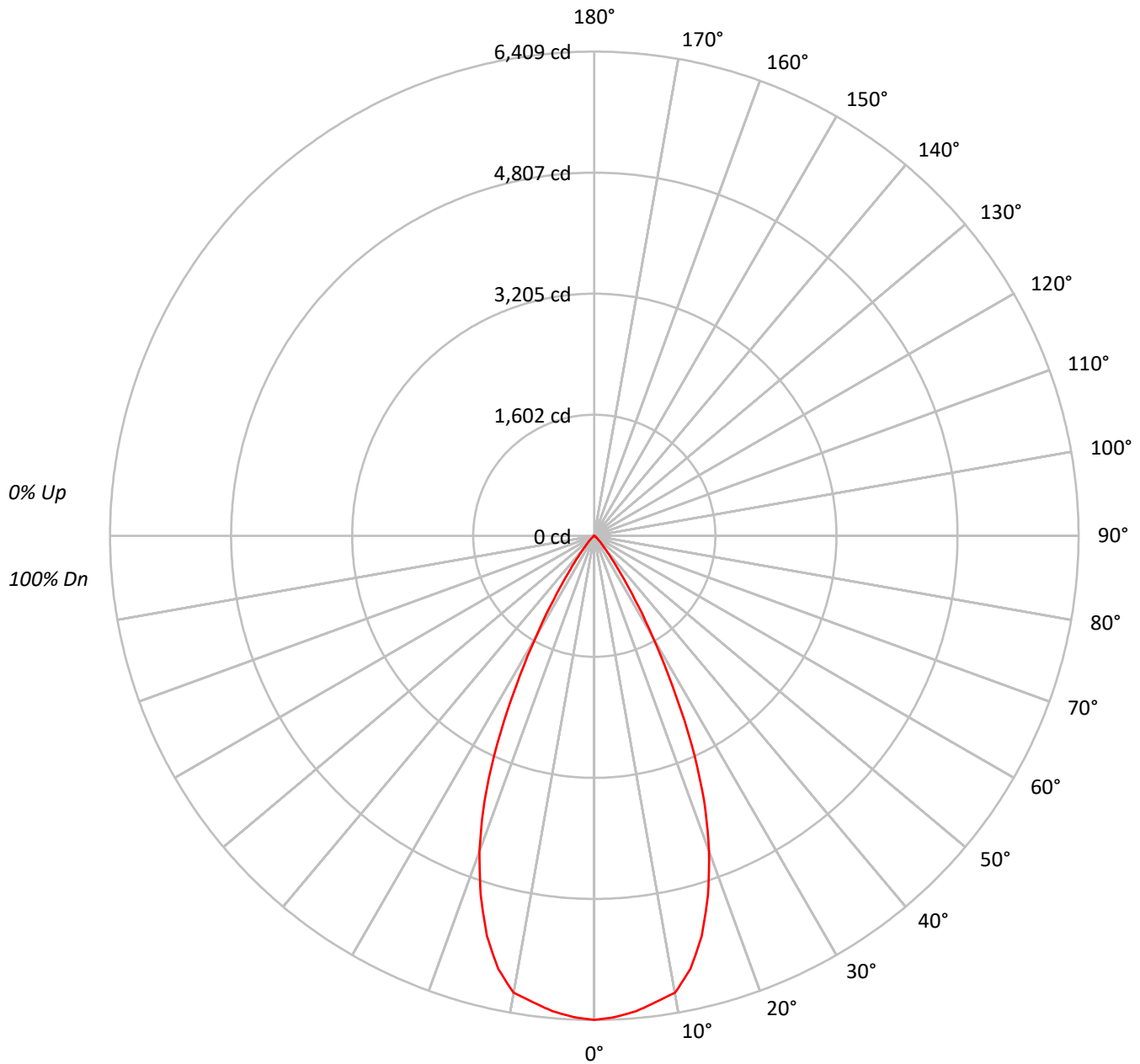


Downlight

TEST NUMBER: P784738

CATALOG NUMBER: LER4DD40BD010-EC4DR5040509027-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P784738

CATALOG NUMBER: LER4DD40BD010-EC4DR5040509027-4LBDP1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	700208
5°	692870
10°	681454
15°	620527
20°	516345
25°	366526
30°	194002
35°	79056
40°	29367
45°	13443
50°	5507
55°	2876
60°	1420
65°	414
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13443 cd/sqm



TEST NUMBER: P784738

CATALOG NUMBER: LER4DD40BD010-EC4DR5040509027-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.1	15.0
10°-20°	1509.0	37.9
20°-30°	1355.5	34.1
30°-40°	424.4	10.7
40°-50°	74.3	1.9
50°-60°	14.8	0.4
60°-70°	2.2	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°	3461.7	87.0
0°-40°	3886.1	97.7
0°-60°	3975.2	99.9
0°-90°	3977.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3977.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6409	
5°	6317	597
15°	5486	1509
25°	3040	1356
35°	593	424
45°	87	74
55°	15	15
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784738

CATALOG NUMBER: LER4DD40BD010-EC4DR5040509027-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	6408.6
2.5°	6376.7
5°	6317.3
7.5°	6226.5
10°	6142.2
12.5°	5872.1
15°	5485.8
17.5°	4995.2
20°	4440.8
22.5°	3799.5
25°	3040.3
27.5°	2235.3
30°	1537.7
32.5°	1001.2
35°	592.7
37.5°	340.4
40°	205.9
42.5°	134.0
45°	87.0
47.5°	53.0
50°	32.4
52.5°	22.2
55°	15.1
57.5°	10.3
60°	6.5
62.5°	3.8
65°	1.6
67.5°	0.5
70°	0.0
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)