

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: P784660

Luminaire Tested: LER4DD40BD010-EC4DR3540509024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR3540509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2665.2 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

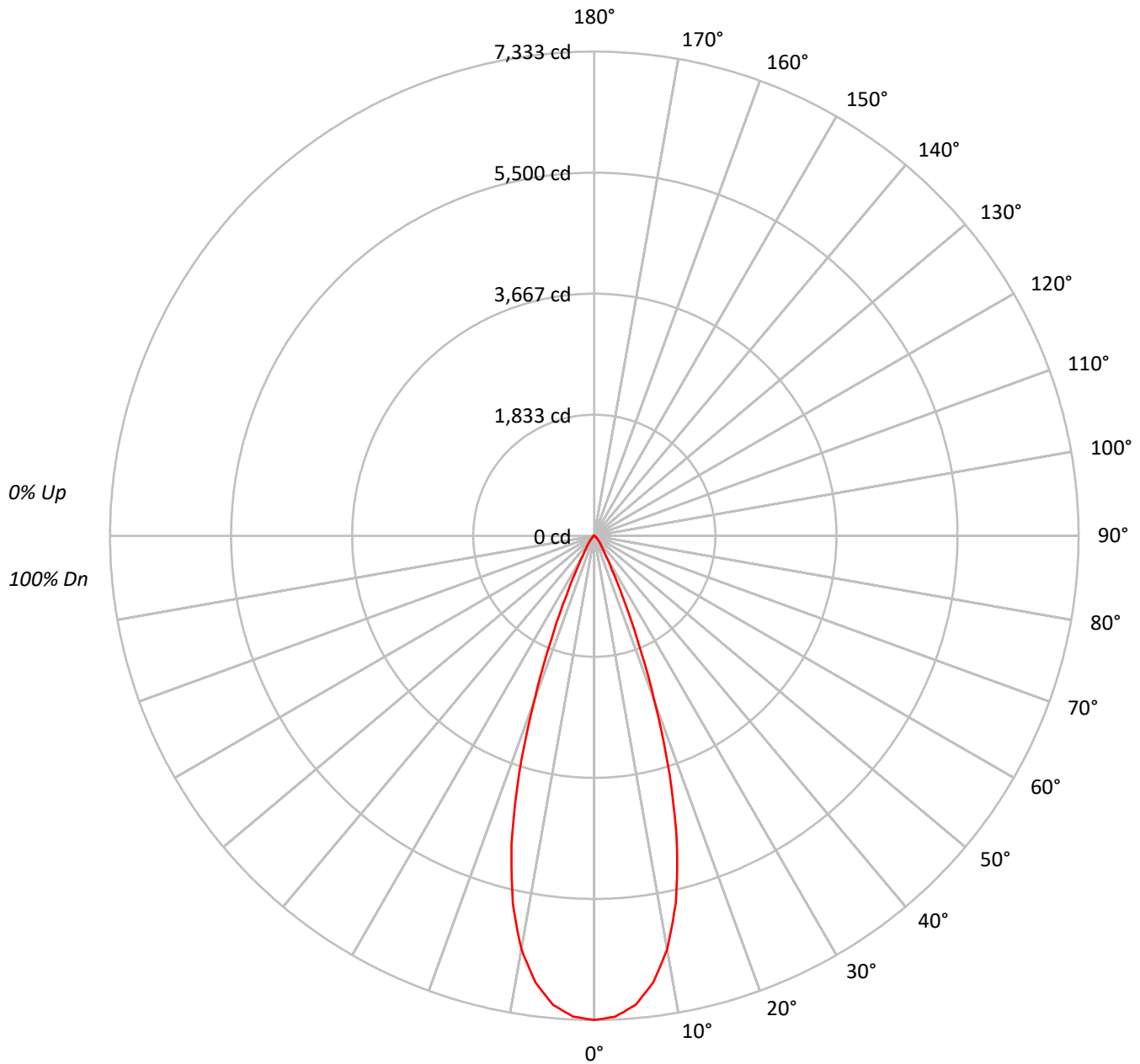


Downlight

TEST NUMBER: P784660

CATALOG NUMBER: LER4DD40BD010-EC4DR3540509024-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P784660

CATALOG NUMBER: LER4DD40BD010-EC4DR3540509024-4LBDP1B

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	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	101	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	105	100	96	93	97	95	92		95	93	91		93
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		90
5	99	93	88	85	98	92	87	84	90	86	84		89	85	83		87
6	96	89	84	81	94	88	84	81	87	83	80		85	82	80		84
7	93	85	81	78	91	85	80	77	84	80	77		83	79	77		82
8	90	82	78	74	88	82	77	74	81	77	74		80	76	74		79
9	87	79	75	72	86	79	75	72	78	74	71		77	74	71		77
10	84	77	72	69	83	76	72	69	76	72	69		75	71	69		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	801220
5°	782389
10°	705141
15°	547307
20°	310425
25°	120773
30°	45053
35°	24702
40°	16146
45°	9827
50°	6255
55°	4419
60°	3234
65°	1758
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9827 cd/sqm



TEST NUMBER: P784660

CATALOG NUMBER: LER4DD40BD010-EC4DR3540509024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.1	24.6
10°-20°	1280.9	48.1
20°-30°	522.4	19.6
30°-40°	125.0	4.7
40°-50°	52.1	2.0
50°-60°	21.6	0.8
60°-70°	6.8	0.3
70°-80°	0.2	0.0
80°-90°	0.1	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°	2459.4	92.3
0°-40°	2584.5	97.0
0°-60°	2658.2	99.7
0°-90°	2665.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7333	
5°	7134	656
15°	4838	1281
25°	1002	522
35°	185	125
45°	64	52
55°	23	22
65°	7	7
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P784660

CATALOG NUMBER: LER4DD40BD010-EC4DR3540509024-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	7333.1
2.5°	7289.1
5°	7133.5
7.5°	6823.2
10°	6355.7
12.5°	5697.5
15°	4838.5
17.5°	3787.9
20°	2669.8
22.5°	1702.4
25°	1001.8
27.5°	566.3
30°	357.1
32.5°	250.7
35°	185.2
37.5°	143.2
40°	113.2
42.5°	87.2
45°	63.6
47.5°	47.6
50°	36.8
52.5°	29.2
55°	23.2
57.5°	18.8
60°	14.8
62.5°	10.8
65°	6.8
67.5°	2.4
70°	0.4
72.5°	0.4
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)