

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: P784840

Luminaire Tested: LER4DD40BD010-EC4DR7040509035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784840
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-EC4DR7040509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2232.6 lumens
Efficiency: N/A
Efficacy: 63.4 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 (A_{in}): 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

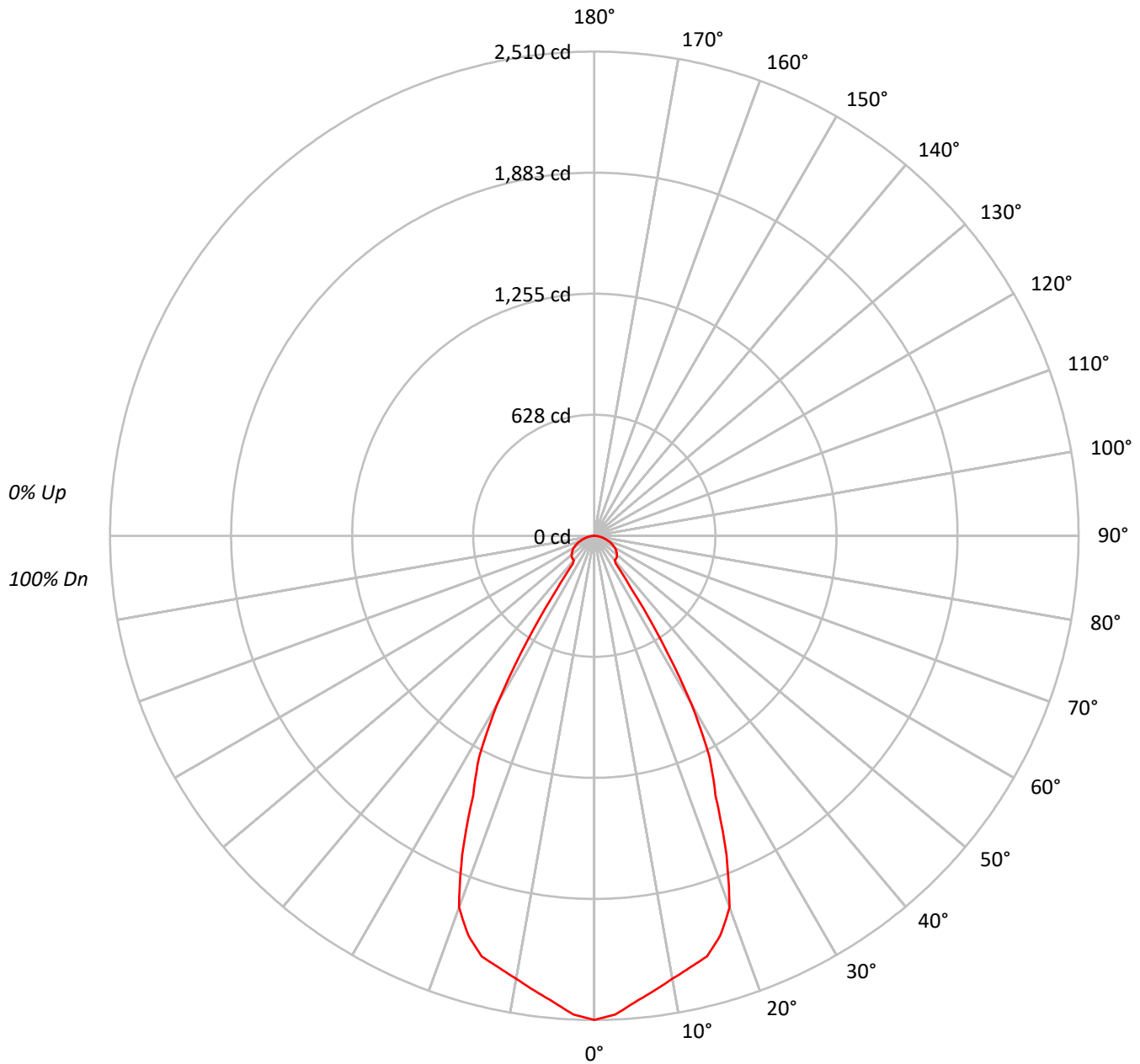


Downlight

TEST NUMBER: P784840

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509035-4LBDP1B

Luminous Intensity Polar Plot





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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°	274255
5°	266112
10°	258693
15°	255301
20°	238394
25°	179098
30°	126605
35°	44843
40°	23577
45°	25109
50°	26007
55°	26497
60°	26660
65°	26086
70°	24630
75°	22796
80°	20260
85°	16423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 26680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	10.3
10°-20°	627.7	28.1
20°-30°	691.4	31.0
30°-40°	264.1	11.8
40°-50°	124.7	5.6
50°-60°	124.0	5.6
60°-70°	99.3	4.4
70°-80°	57.0	2.6
80°-90°	15.5	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°	1547.9	69.3
0°-40°	1812.1	81.2
0°-60°	2060.8	92.3
0°-90°	2232.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2510	
5°	2426	229
15°	2257	628
25°	1486	691
35°	336	264
45°	162	125
55°	139	124
65°	101	99
75°	54	57
85°	13	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2510.1
2.5°	2483.9
5°	2426.3
7.5°	2378.2
10°	2331.7
12.5°	2292.4
15°	2257.0
17.5°	2171.5
20°	2050.3
22.5°	1788.8
25°	1485.6
27.5°	1293.2
30°	1003.5
32.5°	648.2
35°	336.2
37.5°	181.6
40°	165.3
42.5°	164.1
45°	162.5
47.5°	159.0
50°	153.0
52.5°	146.3
55°	139.1
57.5°	131.2
60°	122.0
62.5°	111.7
65°	100.9
67.5°	89.0
70°	77.1
72.5°	65.2
75°	54.0
77.5°	42.5
80°	32.2
82.5°	22.7
85°	13.1
87.5°	5.2
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)