

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: P784818

Luminaire Tested: LER4DD40BD010-EC4DR6540509035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6540509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3497.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

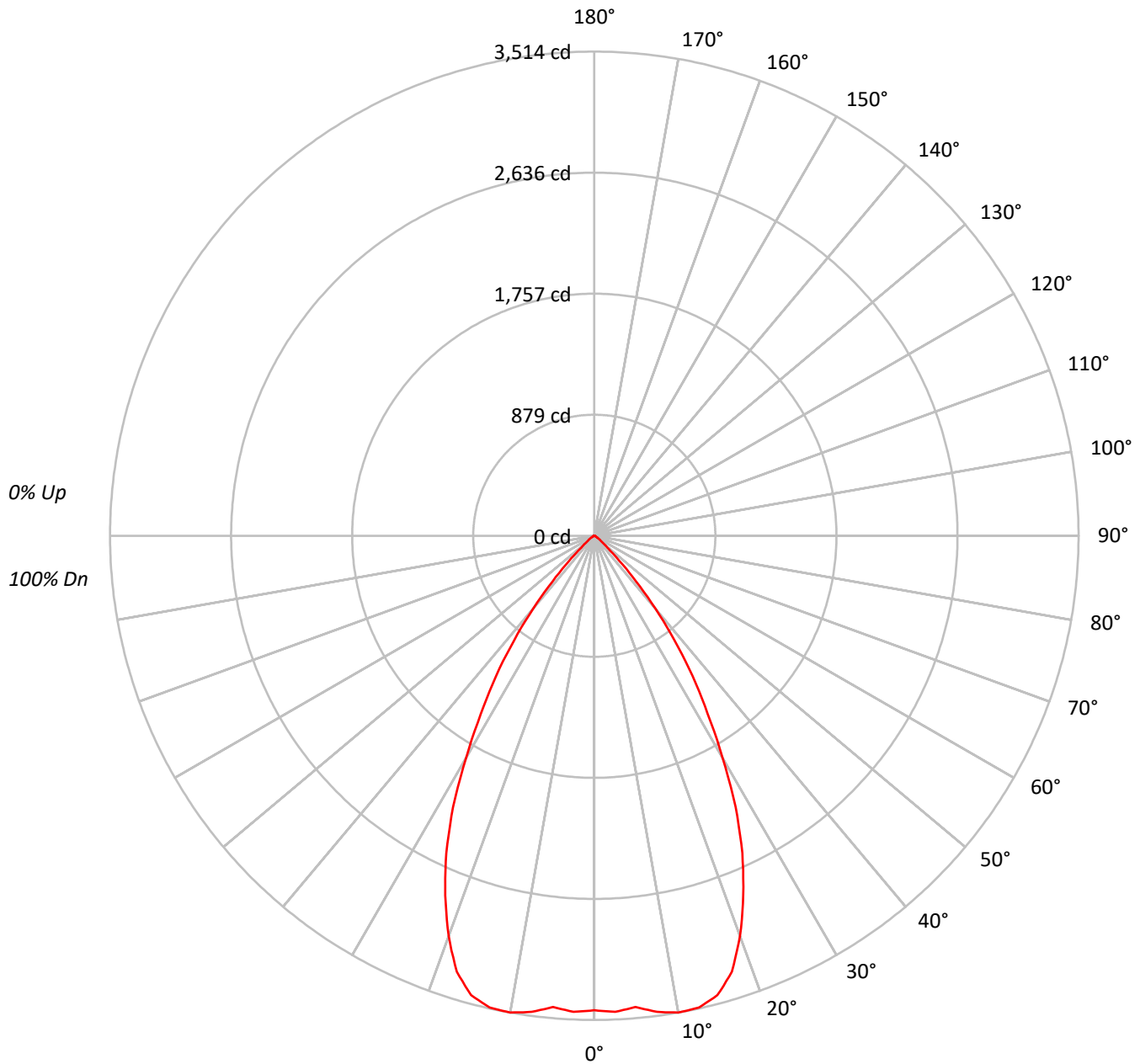


Downlight

TEST NUMBER: P784818

CATALOG NUMBER: LER4DD40BD010-EC4DR6540509035-4LBDP1LI

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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	376261
5°	376569
10°	389832
15°	390473
20°	359492
25°	306308
30°	234487
35°	165661
40°	97787
45°	39696
50°	14397
55°	8020
60°	4589
65°	2534
70°	2651
75°	2069
80°	2139
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.6	9.5
10°-20°	956.5	27.3
20°-30°	1147.6	32.8
30°-40°	771.2	22.1
40°-50°	230.9	6.6
50°-60°	40.7	1.2
60°-70°	11.6	0.3
70°-80°	5.7	0.2
80°-90°	1.8	0.1
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°	2435.7	69.6
0°-40°	3207.0	91.7
0°-60°	3478.6	99.5
0°-90°	3497.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3497.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3444	
5°	3433	332
15°	3452	957
25°	2541	1148
35°	1242	771
45°	257	231
55°	42	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3443.7
2.5°	3458.4
5°	3433.4
7.5°	3485.3
10°	3513.7
12.5°	3506.8
15°	3452.0
17.5°	3317.9
20°	3091.8
22.5°	2825.6
25°	2540.8
27.5°	2219.3
30°	1858.6
32.5°	1531.7
35°	1242.0
37.5°	955.7
40°	685.6
42.5°	447.8
45°	256.9
47.5°	136.0
50°	84.7
52.5°	58.7
55°	42.1
57.5°	30.3
60°	21.0
62.5°	13.7
65°	9.8
67.5°	8.8
70°	8.3
72.5°	6.4
75°	4.9
77.5°	4.4
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)