

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: P785290

Luminaire Tested: LER4DD50D010-EC4DR6540509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785290
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: LER4DD50D010-EC4DR6540509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4322.0 lumens
Efficiency: N/A
Efficacy: 92.0 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): 47
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

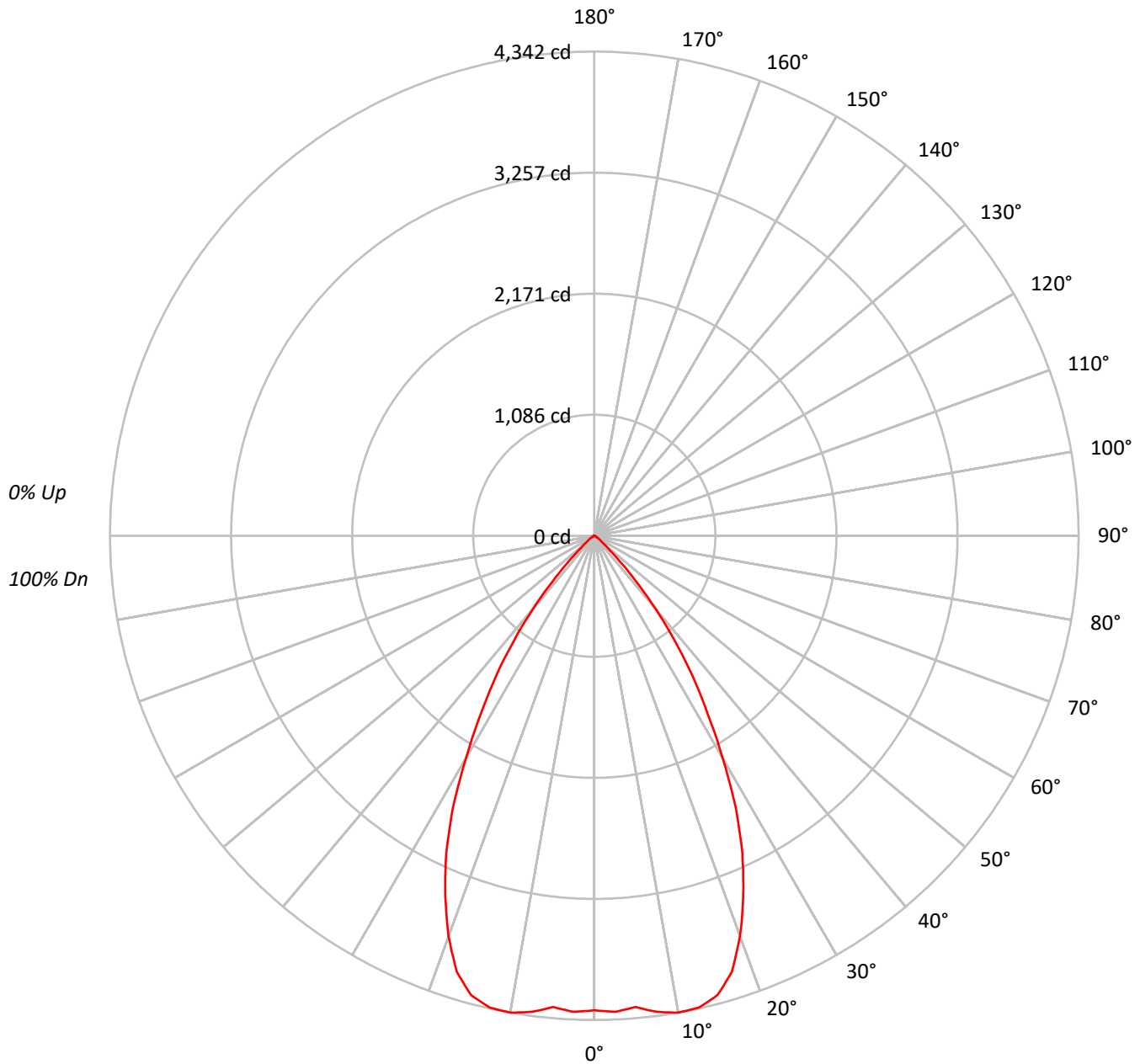


Downlight

TEST NUMBER: P785290

CATALOG NUMBER: LER4DD50D010-EC4DR6540509027-4LBDP1LI

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°	464937
5°	465320
10°	481707
15°	482504
20°	444220
25°	378497
30°	289760
35°	204703
40°	120836
45°	49059
50°	17780
55°	9905
60°	5682
65°	3128
70°	3290
75°	2533
80°	2643
85°	2257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	9.5
10°-20°	1181.9	27.3
20°-30°	1418.1	32.8
30°-40°	953.0	22.1
40°-50°	285.3	6.6
50°-60°	50.4	1.2
60°-70°	14.3	0.3
70°-80°	7.0	0.2
80°-90°	2.2	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°	3009.8	69.6
0°-40°	3962.8	91.7
0°-60°	4298.4	99.5
0°-90°	4322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4322.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4255	
5°	4243	410
15°	4266	1182
25°	3140	1418
35°	1535	953
45°	318	285
55°	52	50
65°	12	14
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4255.3
2.5°	4273.5
5°	4242.6
7.5°	4306.7
10°	4341.8
12.5°	4333.3
15°	4265.6
17.5°	4099.9
20°	3820.5
22.5°	3491.6
25°	3139.6
27.5°	2742.3
30°	2296.7
32.5°	1892.7
35°	1534.7
37.5°	1181.0
40°	847.2
42.5°	553.3
45°	317.5
47.5°	168.1
50°	104.6
52.5°	72.6
55°	52.0
57.5°	37.5
60°	26.0
62.5°	16.9
65°	12.1
67.5°	10.9
70°	10.3
72.5°	7.9
75°	6.0
77.5°	5.4
80°	4.2
82.5°	3.0
85°	1.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)