

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: P785320

Luminaire Tested: LER4DD50D010-EC4DR7040509035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785320
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: LER4DD50D010-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: 2872.1 lumens
Efficiency: N/A
Efficacy: 61.1 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): 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

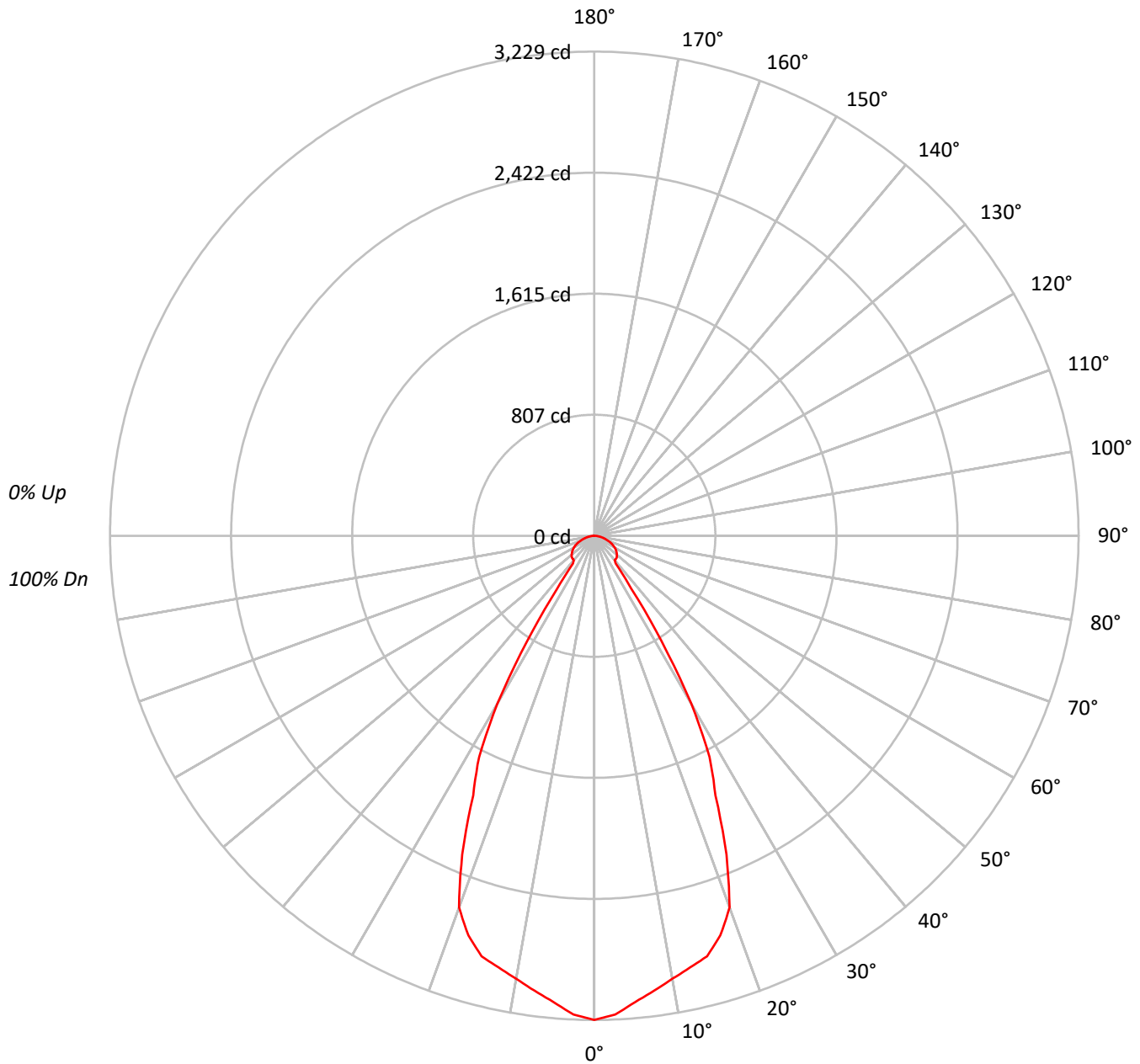


Downlight

TEST NUMBER: P785320

CATALOG NUMBER: LER4DD50D010-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°	352814
5°	342338
10°	332794
15°	328430
20°	306681
25°	230394
30°	162864
35°	57688
40°	30337
45°	32310
50°	33452
55°	34079
60°	34308
65°	33583
70°	31690
75°	29340
80°	26049
85°	21186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 34308 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	10.3
10°-20°	807.5	28.1
20°-30°	889.4	31.0
30°-40°	339.8	11.8
40°-50°	160.5	5.6
50°-60°	159.5	5.6
60°-70°	127.7	4.4
70°-80°	73.4	2.6
80°-90°	19.9	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°	1991.3	69.3
0°-40°	2331.1	81.2
0°-60°	2651.1	92.3
0°-90°	2872.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3229	
5°	3121	294
15°	2904	808
25°	1911	889
35°	432	340
45°	209	160
55°	179	159
65°	130	128
75°	70	73
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3229.1
2.5°	3195.4
5°	3121.3
7.5°	3059.4
10°	2999.6
12.5°	2949.0
15°	2903.5
17.5°	2793.5
20°	2637.6
22.5°	2301.2
25°	1911.1
27.5°	1663.6
30°	1290.9
32.5°	833.9
35°	432.5
37.5°	233.6
40°	212.7
42.5°	211.2
45°	209.1
47.5°	204.5
50°	196.8
52.5°	188.1
55°	178.9
57.5°	168.7
60°	157.0
62.5°	143.7
65°	129.9
67.5°	114.5
70°	99.2
72.5°	83.8
75°	69.5
77.5°	54.7
80°	41.4
82.5°	29.1
85°	16.9
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)