

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: P784850

Luminaire Tested: LER4DD40BD010-EC4DR7040509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784850
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-EC4DR7040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.7 lumens
Efficiency: N/A
Efficacy: 120.7 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 (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

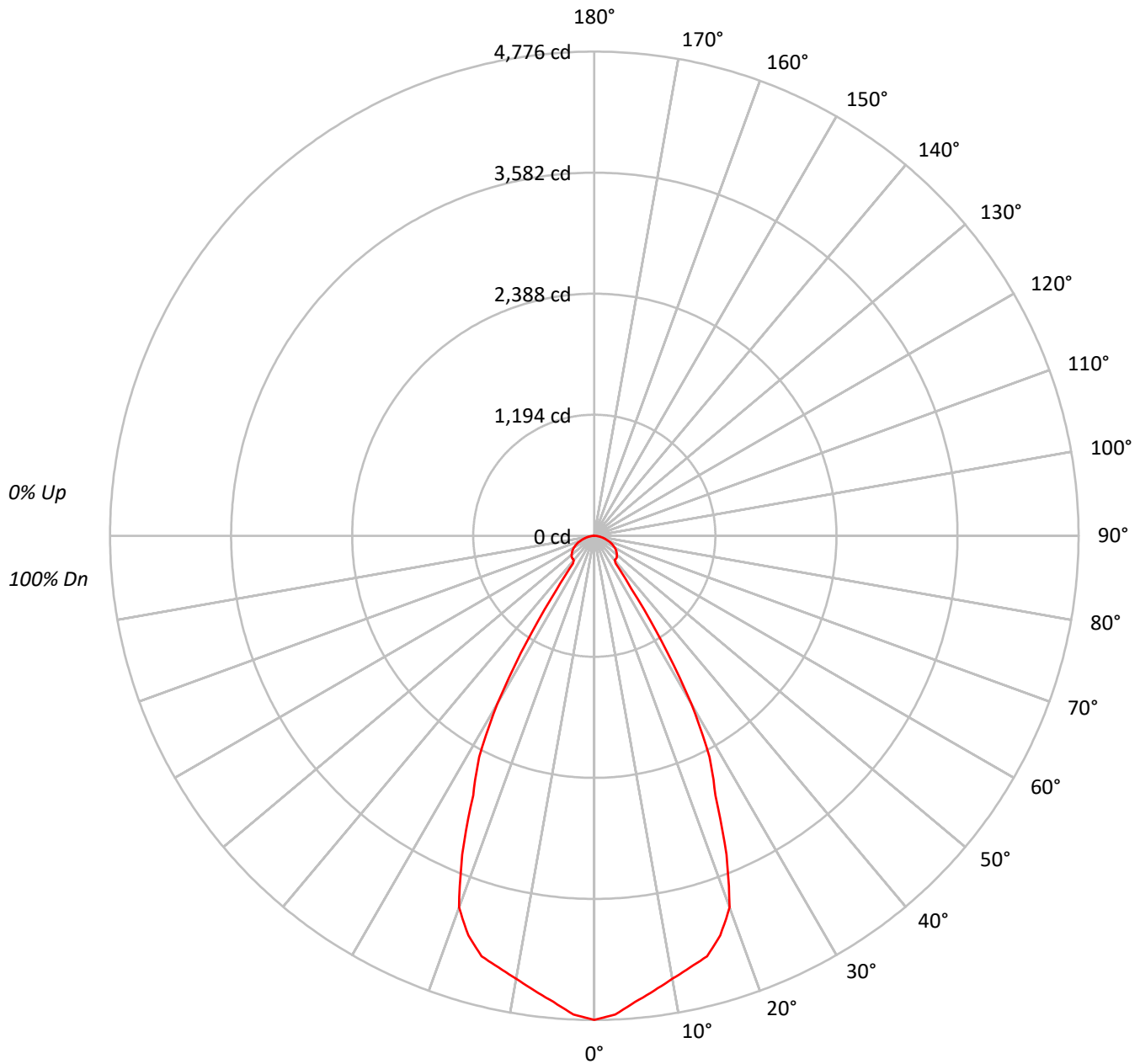


Downlight

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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°	521786
5°	506285
10°	492180
15°	485716
20°	453557
25°	340739
30°	240871
35°	85325
40°	44857
45°	47792
50°	49481
55°	50404
60°	50719
65°	49664
70°	46864
75°	43397
80°	38508
85°	31341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	10.3
10°-20°	1194.3	28.1
20°-30°	1315.3	31.0
30°-40°	502.5	11.8
40°-50°	237.3	5.6
50°-60°	235.9	5.6
60°-70°	188.9	4.4
70°-80°	108.5	2.6
80°-90°	29.5	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°	2945.0	69.3
0°-40°	3447.5	81.2
0°-60°	3920.7	92.3
0°-90°	4247.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4776	
5°	4616	435
15°	4294	1194
25°	2826	1315
35°	640	503
45°	309	237
55°	265	236
65°	192	189
75°	103	109
85°	25	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4775.6
2.5°	4725.7
5°	4616.1
7.5°	4524.6
10°	4436.2
12.5°	4361.3
15°	4294.0
17.5°	4131.4
20°	3900.8
22.5°	3403.3
25°	2826.4
27.5°	2460.4
30°	1909.2
32.5°	1233.2
35°	639.7
37.5°	345.5
40°	314.5
42.5°	312.3
45°	309.3
47.5°	302.4
50°	291.1
52.5°	278.3
55°	264.6
57.5°	249.5
60°	232.1
62.5°	212.5
65°	192.1
67.5°	169.4
70°	146.7
72.5°	124.0
75°	102.8
77.5°	80.9
80°	61.2
82.5°	43.1
85°	25.0
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)