

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: P785090

Luminaire Tested: LER4DD45BD010-EC4DR7040509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785090
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: LER4DD45BD010-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: 4652.9 lumens
Efficiency: N/A
Efficacy: 120.2 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): 38.7
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

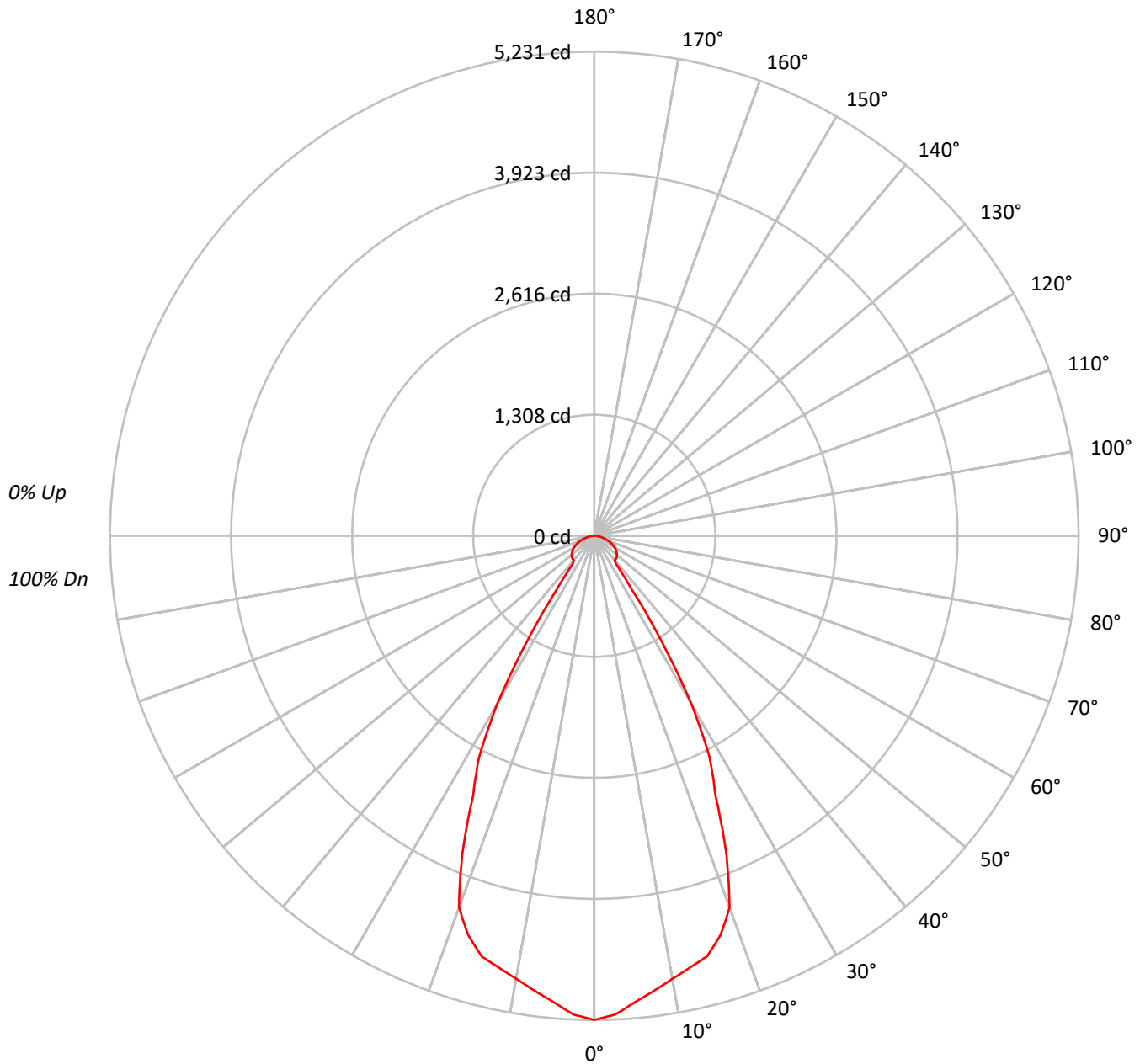


Downlight

TEST NUMBER: P785090

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509050-4LBDP1LI

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	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°	571565
5°	554576
10°	539121
15°	532048
20°	496822
25°	373241
30°	263846
35°	93461
40°	49136
45°	52351
50°	54206
55°	55223
60°	55570
65°	54395
70°	51337
75°	47534
80°	42220
85°	34224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 55576 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	10.3
10°-20°	1308.2	28.1
20°-30°	1440.8	31.0
30°-40°	550.5	11.8
40°-50°	259.9	5.6
50°-60°	258.4	5.6
60°-70°	206.9	4.4
70°-80°	118.9	2.6
80°-90°	32.3	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°	3225.9	69.3
0°-40°	3776.4	81.2
0°-60°	4294.8	92.3
0°-90°	4652.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4652.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5231	
5°	5056	477
15°	4704	1308
25°	3096	1441
35°	701	550
45°	339	260
55°	290	258
65°	210	207
75°	113	119
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5231.2
2.5°	5176.5
5°	5056.4
7.5°	4956.2
10°	4859.3
12.5°	4777.3
15°	4703.6
17.5°	4525.5
20°	4272.9
22.5°	3727.9
25°	3096.0
27.5°	2695.1
30°	2091.3
32.5°	1350.9
35°	700.7
37.5°	378.5
40°	344.5
42.5°	342.1
45°	338.8
47.5°	331.3
50°	318.9
52.5°	304.8
55°	289.9
57.5°	273.3
60°	254.3
62.5°	232.7
65°	210.4
67.5°	185.5
70°	160.7
72.5°	135.8
75°	112.6
77.5°	88.6
80°	67.1
82.5°	47.2
85°	27.3
87.5°	10.8
90°	0.0



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— 0°-180°







(END OF REPORT)