

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: P785091

Luminaire Tested: LER4DD45BD010-EC4DR7040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785091
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-EC4DR7040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3461.2 lumens
Efficiency: N/A
Efficacy: 89.4 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

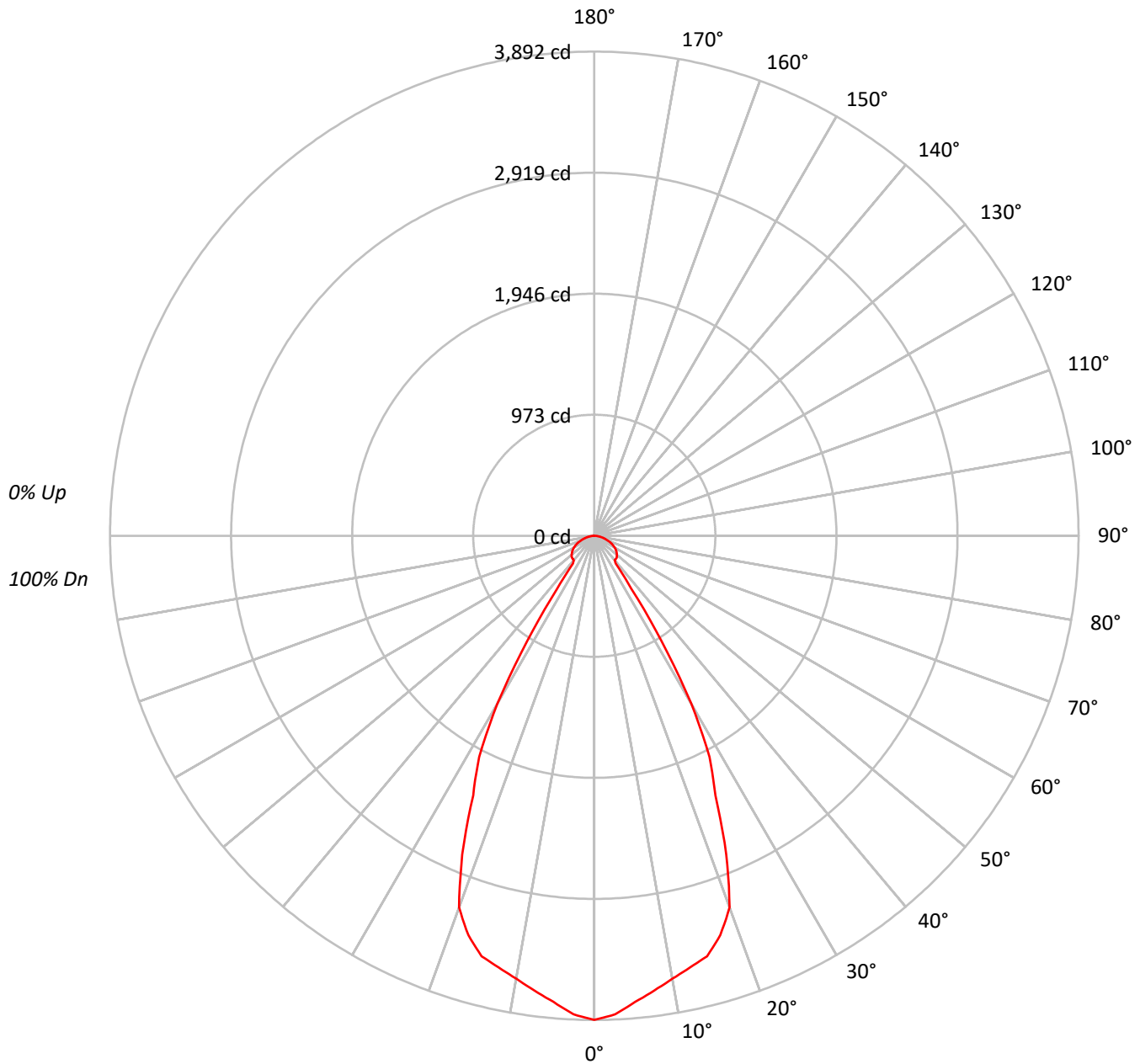


Downlight

TEST NUMBER: P785091

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509050-4LBDP1MW

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°	425188
5°	412554
10°	401049
15°	395790
20°	369585
25°	277652
30°	196272
35°	69519
40°	36556
45°	38939
50°	40319
55°	41070
60°	41344
65°	40460
70°	38175
75°	35376
80°	31397
85°	25449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 41344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	10.3
10°-20°	973.2	28.1
20°-30°	1071.8	31.0
30°-40°	409.5	11.8
40°-50°	193.4	5.6
50°-60°	192.2	5.6
60°-70°	153.9	4.4
70°-80°	88.4	2.6
80°-90°	24.0	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°	2399.8	69.3
0°-40°	2809.3	81.2
0°-60°	3194.8	92.3
0°-90°	3461.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3892	
5°	3762	355
15°	3499	973
25°	2303	1072
35°	521	410
45°	252	193
55°	216	192
65°	156	154
75°	84	88
85°	20	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3891.5
2.5°	3850.8
5°	3761.5
7.5°	3686.9
10°	3614.8
12.5°	3553.8
15°	3499.0
17.5°	3366.5
20°	3178.6
22.5°	2773.2
25°	2303.1
27.5°	2004.9
30°	1555.7
32.5°	1004.9
35°	521.2
37.5°	281.6
40°	256.3
42.5°	254.5
45°	252.0
47.5°	246.5
50°	237.2
52.5°	226.7
55°	215.6
57.5°	203.3
60°	189.2
62.5°	173.1
65°	156.5
67.5°	138.0
70°	119.5
72.5°	101.0
75°	83.8
77.5°	65.9
80°	49.9
82.5°	35.1
85°	20.3
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)