

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: P784511

Luminaire Tested: LER4DD35BD010-EC4DR5020359040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P784511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD35BD010-EC4DR5020359040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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

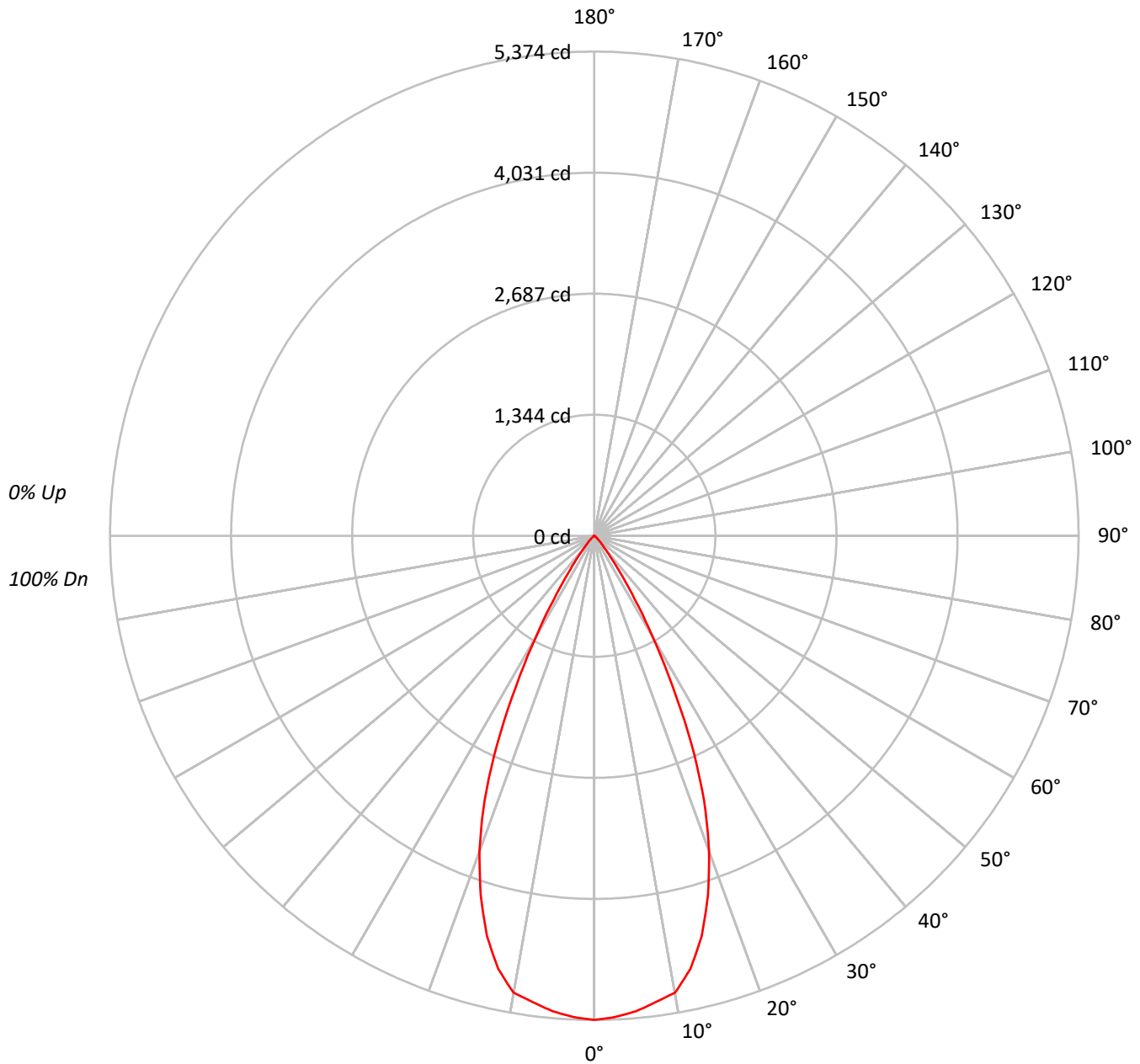


Downlight

TEST NUMBER: P784511

CATALOG NUMBER: LER4DD35BD010-EC4DR5020359040-4LBDP1MW

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	109	107		112	110	108	106		106	104	102			102	101	99			95
2	109	105	101	98		107	103	100	97		100	98	95			97	95	93			90
3	105	99	95	91		103	98	94	90		95	92	89			93	90	88			85
4	100	94	89	85		99	93	88	85		90	87	84			89	85	83			80
5	96	89	84	80		95	88	83	79		86	82	79			85	81	78			76
6	92	84	79	75		91	83	79	75		82	78	74			81	77	74			72
7	88	80	75	71		87	79	74	71		78	74	71			77	73	70			69
8	85	76	71	67		84	76	71	67		75	70	67			74	70	67			65
9	81	73	68	64		80	72	67	64		71	67	64			71	67	64			62
10	78	70	64	61		77	69	64	61		68	64	61			68	64	61			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	587135
5°	580987
10°	571418
15°	520318
20°	432965
25°	307345
30°	162675
35°	66291
40°	24618
45°	11264
50°	4623
55°	2419
60°	1180
65°	362
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.7	15.0
10°-20°	1265.3	37.9
20°-30°	1136.6	34.1
30°-40°	355.9	10.7
40°-50°	62.3	1.9
50°-60°	12.4	0.4
60°-70°	1.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2902.7	87.0
0°-40°	3258.5	97.7
0°-60°	3333.2	99.9
0°-90°	3335.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5374	
5°	5297	501
15°	4600	1265
25°	2549	1137
35°	497	356
45°	73	62
55°	13	12
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5373.7
2.5°	5347.0
5°	5297.2
7.5°	5221.1
10°	5150.4
12.5°	4923.8
15°	4599.9
17.5°	4188.5
20°	3723.7
22.5°	3185.9
25°	2549.4
27.5°	1874.3
30°	1289.4
32.5°	839.5
35°	497.0
37.5°	285.4
40°	172.6
42.5°	112.4
45°	72.9
47.5°	44.4
50°	27.2
52.5°	18.6
55°	12.7
57.5°	8.6
60°	5.4
62.5°	3.2
65°	1.4
67.5°	0.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)