

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: P785047

Luminaire Tested: LER4DD45BD010-EC4DR6540509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6540509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669.6 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

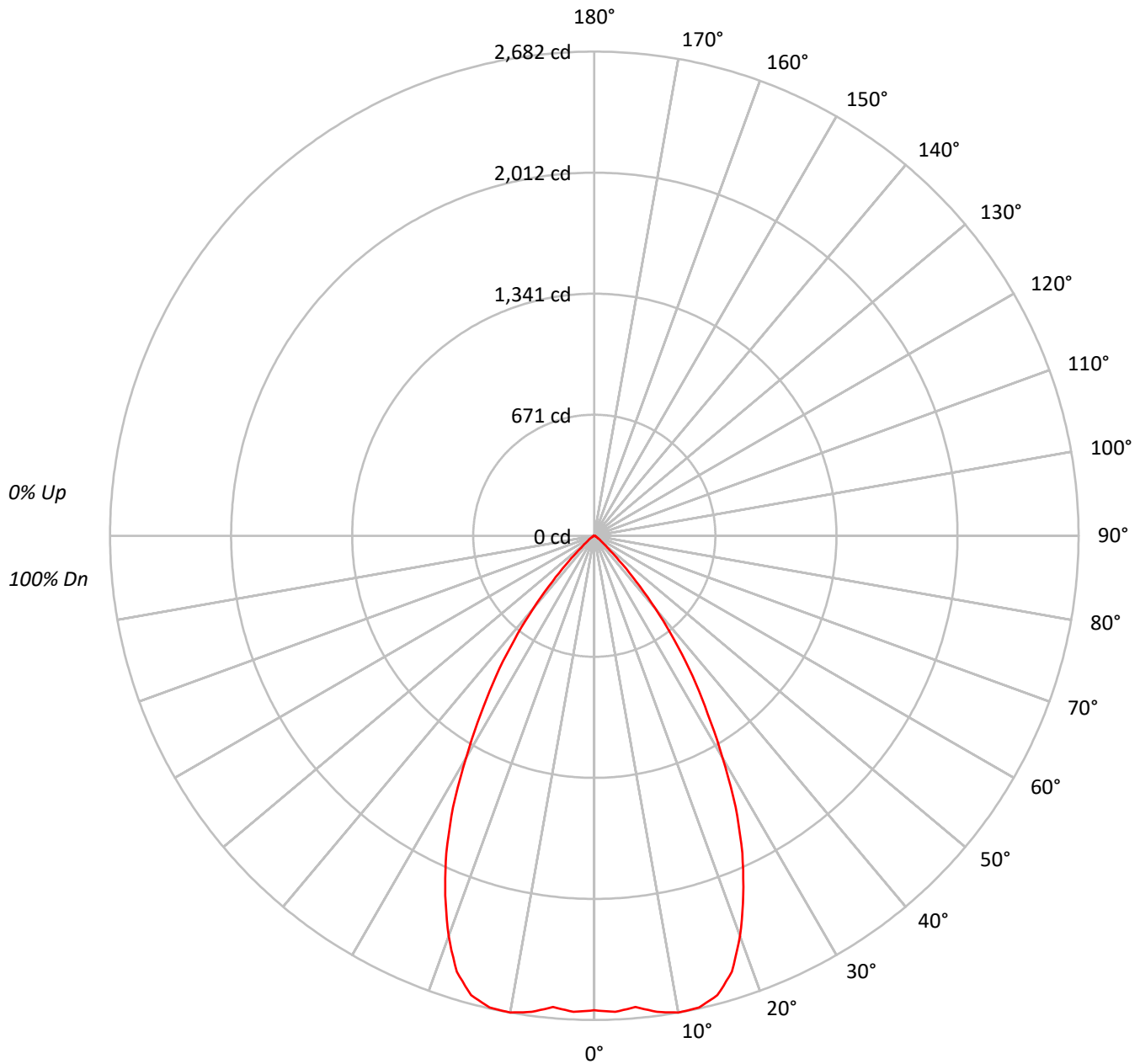


Downlight

TEST NUMBER: P785047

CATALOG NUMBER: LER4DD45BD010-EC4DR6540509024-4LBDP1MW

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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	287181
5°	287411
10°	297536
15°	298024
20°	274381
25°	233782
30°	178975
35°	126447
40°	74638
45°	30301
50°	10981
55°	6115
60°	3518
65°	1939
70°	2013
75°	1562
80°	1636
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	9.5
10°-20°	730.0	27.3
20°-30°	875.9	32.8
30°-40°	588.7	22.1
40°-50°	176.2	6.6
50°-60°	31.1	1.2
60°-70°	8.9	0.3
70°-80°	4.3	0.2
80°-90°	1.4	0.1
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°	1859.0	69.6
0°-40°	2447.7	91.7
0°-60°	2655.0	99.5
0°-90°	2669.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2628	
5°	2620	253
15°	2635	730
25°	1939	876
35°	948	589
45°	196	176
55°	32	31
65°	8	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2628.4
2.5°	2639.6
5°	2620.5
7.5°	2660.1
10°	2681.8
12.5°	2676.5
15°	2634.7
17.5°	2532.4
20°	2359.8
22.5°	2156.6
25°	1939.2
27.5°	1693.8
30°	1418.6
32.5°	1169.1
35°	948.0
37.5°	729.5
40°	523.3
42.5°	341.8
45°	196.1
47.5°	103.8
50°	64.6
52.5°	44.8
55°	32.1
57.5°	23.2
60°	16.1
62.5°	10.5
65°	7.5
67.5°	6.7
70°	6.3
72.5°	4.9
75°	3.7
77.5°	3.4
80°	2.6
82.5°	1.9
85°	1.1
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)