

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: P781547

Luminaire Tested: LER4D45BD010-EC4DR4540509027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR4540509027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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

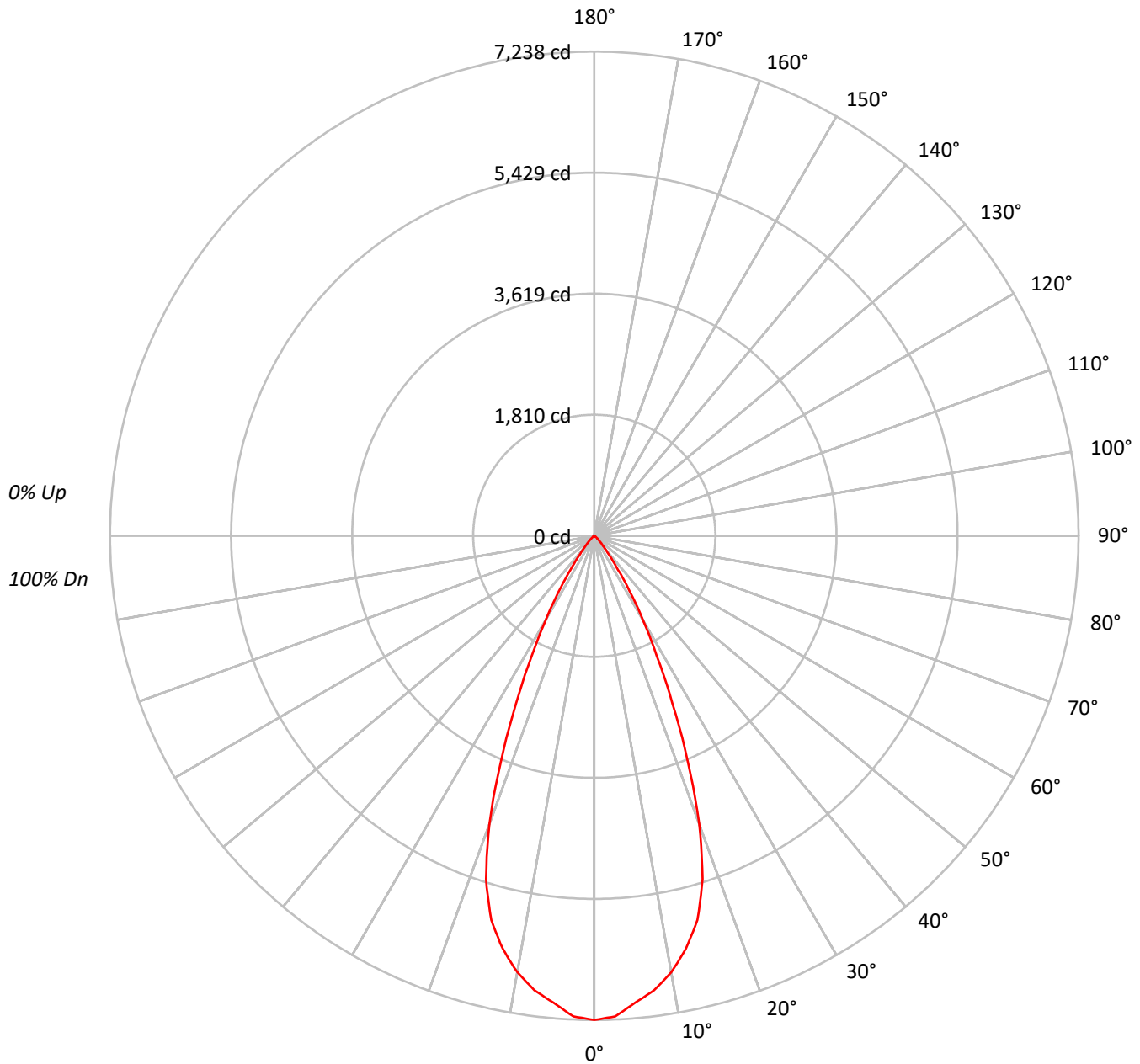


Downlight

TEST NUMBER: P781547

CATALOG NUMBER: LER4D45BD010-EC4DR4540509027-4LBS1MW

Luminous Intensity Polar Plot



CATALOG NUMBER: LER4D45BD010-EC4DR4540509027-4LBS1MW

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100	100	100	100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95	95			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	90			
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85			
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77	77	77	77			
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	73	73	73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60	60	60	60			

	0°
0°	790775
5°	768262
10°	735019
15°	672695
20°	533681
25°	333180
30°	183644
35°	82457
40°	32477
45°	15313
50°	7258
55°	3791
60°	1857
65°	440
70°	192
75°	0
80°	0
85°	0

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.2	16.1
10°-20°	1619.8	39.6
20°-30°	1282.7	31.3
30°-40°	427.2	10.4
40°-50°	84.8	2.1
50°-60°	19.3	0.5
60°-70°	2.8	0.1
70°-80°	0.1	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°	3560.7	87.0
0°-40°	3987.8	97.4
0°-60°	4091.9	99.9
0°-90°	4094.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7238	
5°	7005	658
15°	5947	1620
25°	2764	1283
35°	618	427
45°	99	85
55°	20	19
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7237.5
2.5°	7190.2
5°	7004.7
7.5°	6851.5
10°	6625.0
12.5°	6323.3
15°	5947.0
17.5°	5381.2
20°	4589.9
22.5°	3647.2
25°	2763.7
27.5°	2023.7
30°	1455.6
32.5°	989.9
35°	618.2
37.5°	366.6
40°	227.7
42.5°	149.7
45°	99.1
47.5°	63.8
50°	42.7
52.5°	28.5
55°	19.9
57.5°	13.1
60°	8.5
62.5°	4.6
65°	1.7
67.5°	0.6
70°	0.6
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)