

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: P785043

Luminaire Tested: LER4DD45BD010-EC4DR6040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

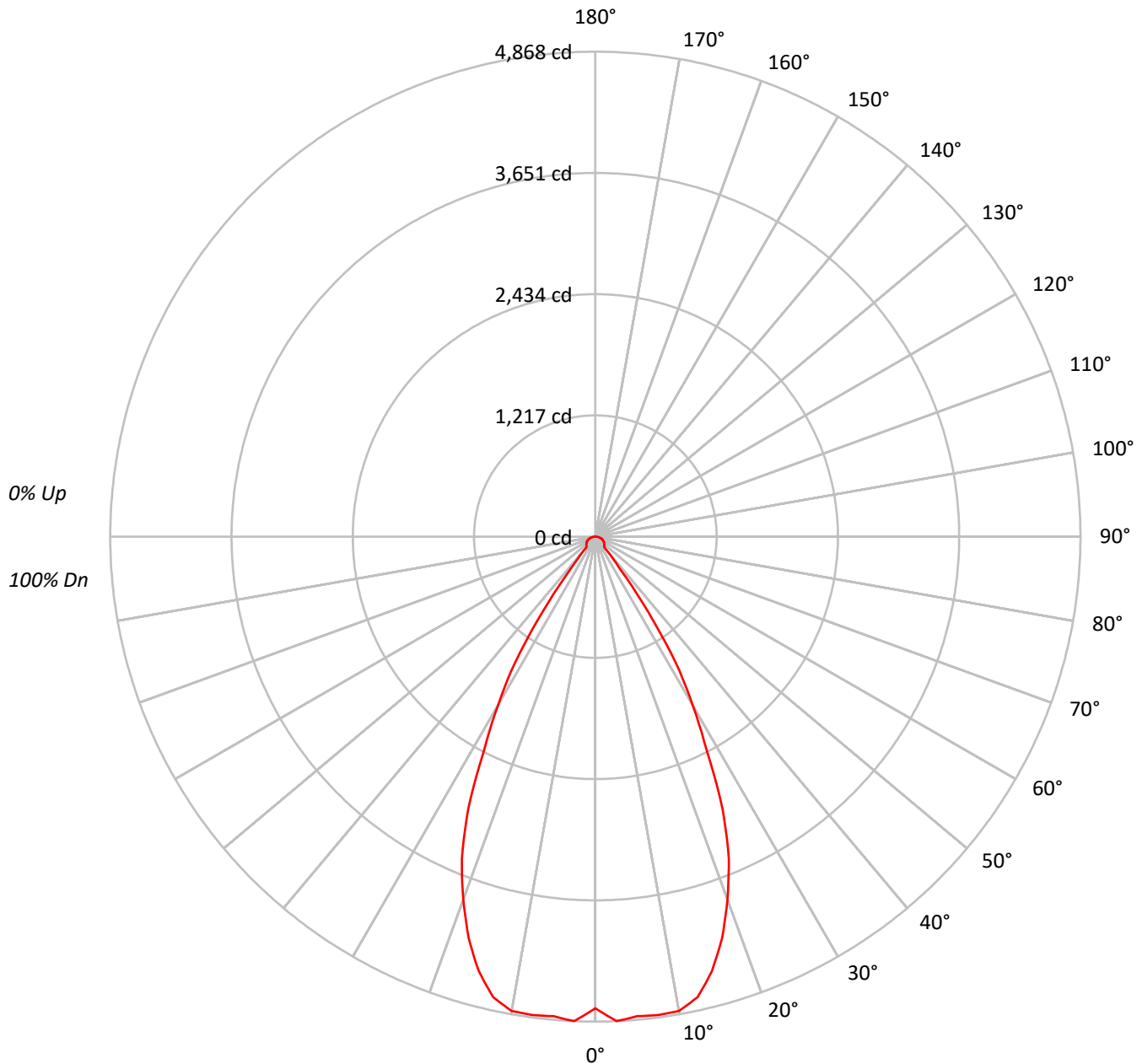


Downlight

TEST NUMBER: P785043

CATALOG NUMBER: LER4DD45BD010-EC4DR6040509050-4LBDP1MW

Luminous Intensity Polar Plot



TEST NUMBER: P785043

CATALOG NUMBER: LER4DD45BD010-EC4DR6040509050-4LBDP1MW

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	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	517350
5°	530063
10°	536470
15°	511065
20°	450592
25°	364453
30°	246523
35°	123539
40°	20039
45°	19608
50°	20007
55°	20306
60°	20869
65°	21355
70°	21851
75°	22121
80°	21330
85°	17801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 22121 cd/sqm



TEST NUMBER: P785043

CATALOG NUMBER: LER4DD45BD010-EC4DR6040509050-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	11.6
10°-20°	1249.7	31.3
20°-30°	1344.6	33.7
30°-40°	584.5	14.7
40°-50°	98.2	2.5
50°-60°	95.5	2.4
60°-70°	81.7	2.0
70°-80°	54.6	1.4
80°-90°	16.3	0.4
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°	3056.2	76.7
0°-40°	3640.7	91.3
0°-60°	3834.3	96.2
0°-90°	3986.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4735	
5°	4833	462
15°	4518	1250
25°	3023	1345
35°	926	584
45°	127	98
55°	107	95
65°	83	82
75°	52	55
85°	14	16
90°	0	



TEST NUMBER: P785043

CATALOG NUMBER: LER4DD45BD010-EC4DR6040509050-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4735.0
2.5°	4868.1
5°	4832.9
7.5°	4844.0
10°	4835.4
12.5°	4735.6
15°	4518.1
17.5°	4226.0
20°	3875.3
22.5°	3500.1
25°	3023.1
27.5°	2418.0
30°	1954.0
32.5°	1506.0
35°	926.2
37.5°	396.2
40°	140.5
42.5°	129.4
45°	126.9
47.5°	122.6
50°	117.7
52.5°	112.2
55°	106.6
57.5°	101.1
60°	95.5
62.5°	89.4
65°	82.6
67.5°	75.8
70°	68.4
72.5°	60.4
75°	52.4
77.5°	43.1
80°	33.9
82.5°	24.0
85°	14.2
87.5°	4.9
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)