

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: P781583

Luminaire Tested: LER4D45BD010-EC4DR5040509040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781583
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: LER4D45BD010-EC4DR5040509040-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 4521.5 lumens
Efficiency: N/A
Efficacy: 116.8 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): 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

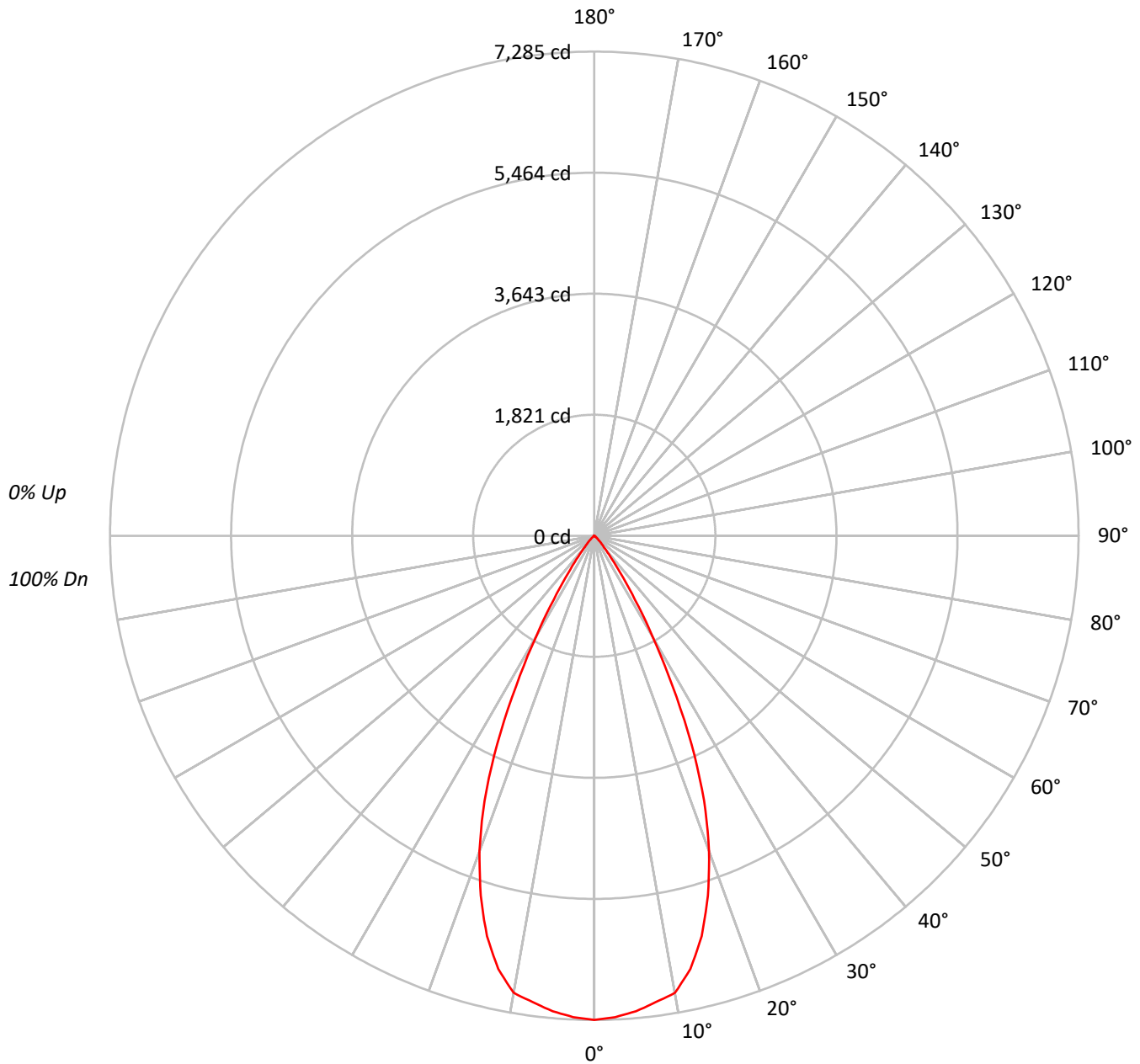


Downlight

TEST NUMBER: P781583

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1MW

Luminous Intensity Polar Plot



TEST NUMBER: P781583

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	795997
5°	787653
10°	774682
15°	705408
20°	586980
25°	416665
30°	220546
35°	89873
40°	33375
45°	15282
50°	6272
55°	3276
60°	1617
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15282 cd/sqm



TEST NUMBER: P781583

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.8	15.0
10°-20°	1715.5	37.9
20°-30°	1540.9	34.1
30°-40°	482.5	10.7
40°-50°	84.5	1.9
50°-60°	16.9	0.4
60°-70°	2.5	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°	3935.2	87.0
0°-40°	4417.7	97.7
0°-60°	4519.0	99.9
0°-90°	4521.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4521.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7285	
5°	7182	679
15°	6236	1715
25°	3456	1541
35°	674	482
45°	99	84
55°	17	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781583

CATALOG NUMBER: LER4D45BD010-EC4DR5040509040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	7285.3
2.5°	7249.1
5°	7181.5
7.5°	7078.3
10°	6982.5
12.5°	6675.4
15°	6236.2
17.5°	5678.5
20°	5048.3
22.5°	4319.2
25°	3456.2
27.5°	2541.1
30°	1748.1
32.5°	1138.2
35°	673.8
37.5°	387.0
40°	234.0
42.5°	152.3
45°	98.9
47.5°	60.2
50°	36.9
52.5°	25.2
55°	17.2
57.5°	11.7
60°	7.4
62.5°	4.3
65°	1.8
67.5°	0.6
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)