

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: P781458

Luminaire Tested: LER4D45BD010-EC4DR2540509035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR2540509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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

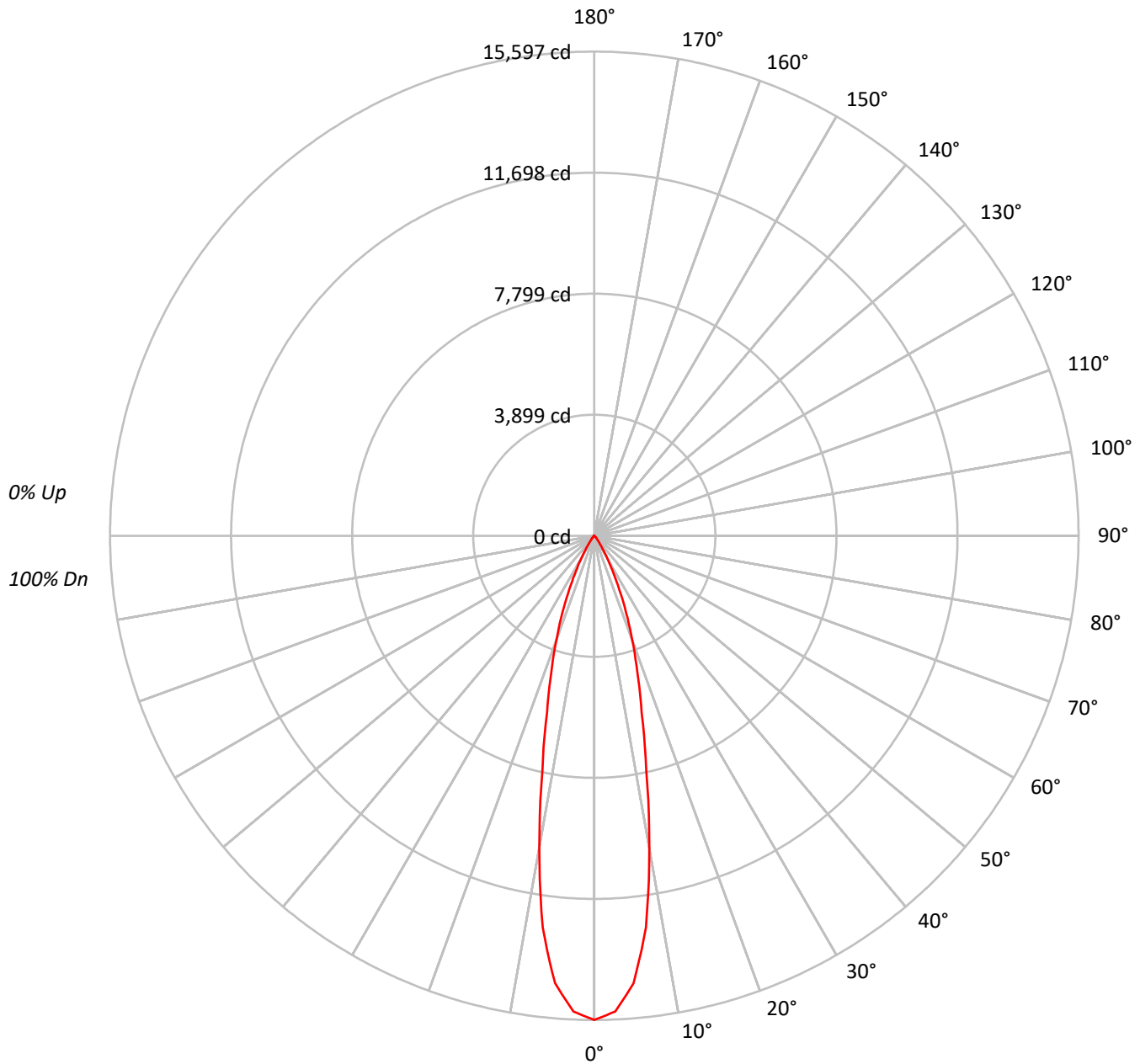


Downlight

TEST NUMBER: P781458

CATALOG NUMBER: LER4D45BD010-EC4DR2540509035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781458

CATALOG NUMBER: LER4D45BD010-EC4DR2540509035-4LBS1LI

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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	97	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	93	89	86	98	93	89	86	91	87	85		89	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1704184
5°	1587240
10°	1132218
15°	666836
20°	414908
25°	227706
30°	104135
35°	39441
40°	17857
45°	10739
50°	4453
55°	2876
60°	2010
65°	1344
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10739 cd/sqm



TEST NUMBER: P781458

CATALOG NUMBER: LER4D45BD010-EC4DR2540509035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1243.7	30.2
10°-20°	1684.5	41.0
20°-30°	891.4	21.7
30°-40°	220.1	5.4
40°-50°	53.7	1.3
50°-60°	14.1	0.3
60°-70°	4.7	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°	3819.7	92.9
0°-40°	4039.8	98.2
0°-60°	4107.6	99.9
0°-90°	4112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4112.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15597	
5°	14472	###
15°	5895	1685
25°	1889	891
35°	296	220
45°	70	54
55°	15	14
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781458

CATALOG NUMBER: LER4D45BD010-EC4DR2540509035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	15597.4
2.5°	15341.1
5°	14471.8
7.5°	12725.2
10°	10205.1
12.5°	7714.5
15°	5895.2
17.5°	4594.5
20°	3568.4
22.5°	2676.2
25°	1888.8
27.5°	1266.6
30°	825.4
32.5°	502.2
35°	295.7
37.5°	180.9
40°	125.2
42.5°	95.7
45°	69.5
47.5°	42.0
50°	26.2
52.5°	19.0
55°	15.1
57.5°	11.8
60°	9.2
62.5°	7.2
65°	5.2
67.5°	2.0
70°	0.7
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)