

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: P781765

Luminaire Tested: LER4D50D010-EC4DR4040509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR4040509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

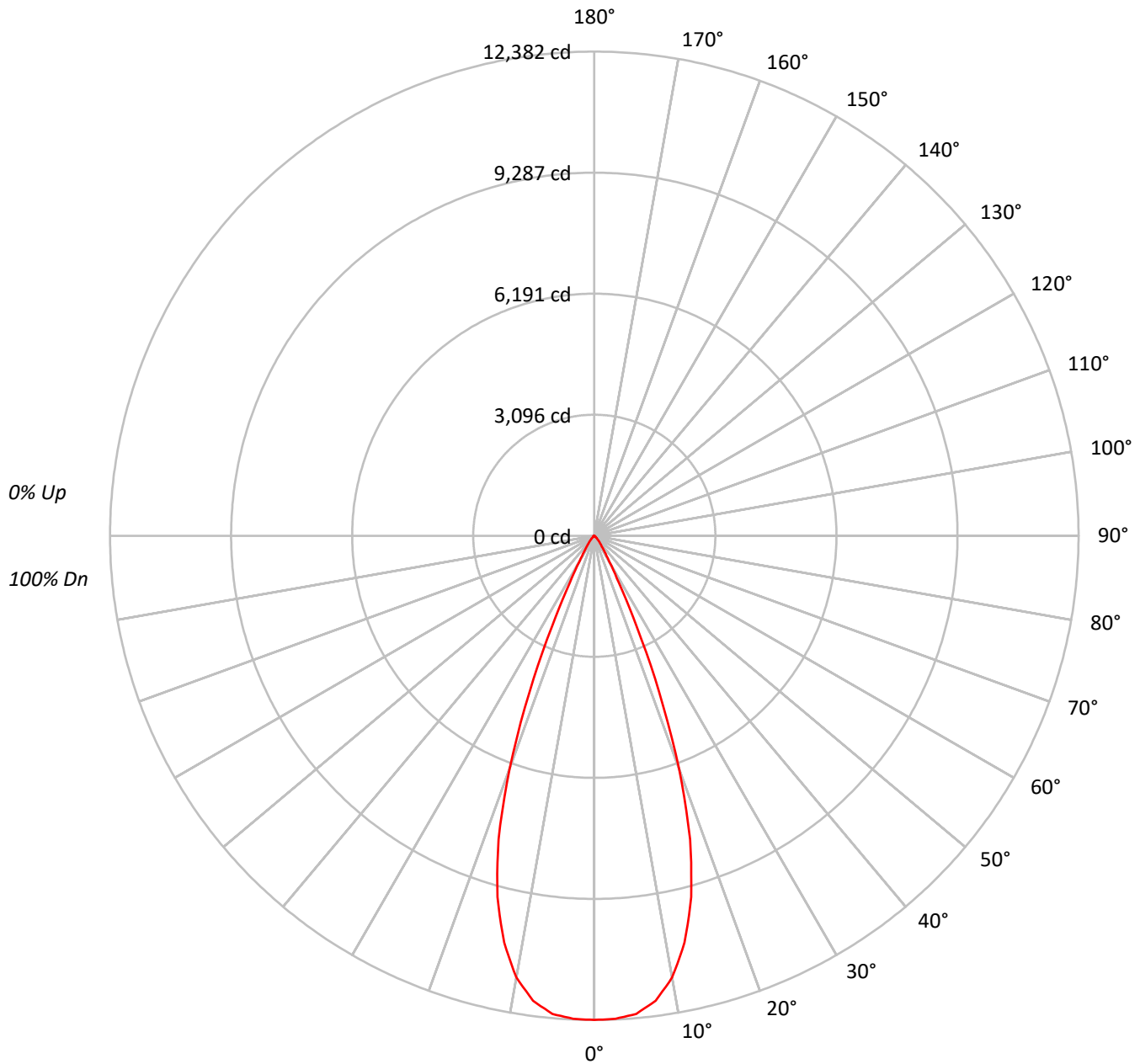


Downlight

TEST NUMBER: P781765

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781765

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1H

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	112	110	108		112	110	108	107		106	105	103		103	101	100		99	98	97
2	110	106	103	100		108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94		104	100	96	93		97	94	92		95	93	90		93	91	89
4	102	97	92	89		101	95	91	88		93	90	87		92	89	86		90	87	85
5	99	92	88	84		97	91	87	84		90	86	83		88	85	83		87	84	82
6	95	88	84	80		94	88	83	80		86	82	80		85	82	79		84	81	79
7	92	85	80	77		91	84	80	77		83	79	76		82	79	76		81	78	76
8	89	82	77	74		88	81	77	74		80	76	73		79	76	73		78	75	73
9	86	79	74	71		85	78	74	71		77	73	71		77	73	70		76	72	70
10	83	76	71	68		82	75	71	68		75	71	68		74	70	68		73	70	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1352834
5°	1346266
10°	1272509
15°	1081798
20°	737321
25°	307647
30°	96730
35°	44963
40°	24860
45°	11403
50°	5524
55°	3029
60°	1573
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11403 cd/sqm



TEST NUMBER: P781765

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.1	21.6
10°-20°	2567.7	48.3
20°-30°	1285.3	24.2
30°-40°	235.6	4.4
40°-50°	65.0	1.2
50°-60°	15.2	0.3
60°-70°	2.9	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°	4999.1	94.0
0°-40°	5234.7	98.4
0°-60°	5315.0	99.9
0°-90°	5318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12382	
5°	12275	###
15°	9564	2568
25°	2552	1285
35°	337	236
45°	74	65
55°	16	15
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781765

CATALOG NUMBER: LER4D50D010-EC4DR4040509030-4LBS1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	12381.7
2.5°	12363.6
5°	12274.7
7.5°	11991.1
10°	11469.6
12.5°	10656.6
15°	9563.7
17.5°	8142.4
20°	6341.3
22.5°	4323.3
25°	2551.9
27.5°	1349.0
30°	766.7
32.5°	495.5
35°	337.1
37.5°	240.9
40°	174.3
42.5°	119.3
45°	73.8
47.5°	47.0
50°	32.5
52.5°	23.1
55°	15.9
57.5°	10.1
60°	7.2
62.5°	4.3
65°	2.2
67.5°	1.4
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)