

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: P781814

Luminaire Tested: LER4D50D010-EC4DR5040509030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781814
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: LER4D50D010-EC4DR5040509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5548.7 lumens
Efficiency: N/A
Efficacy: 118.1 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): 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

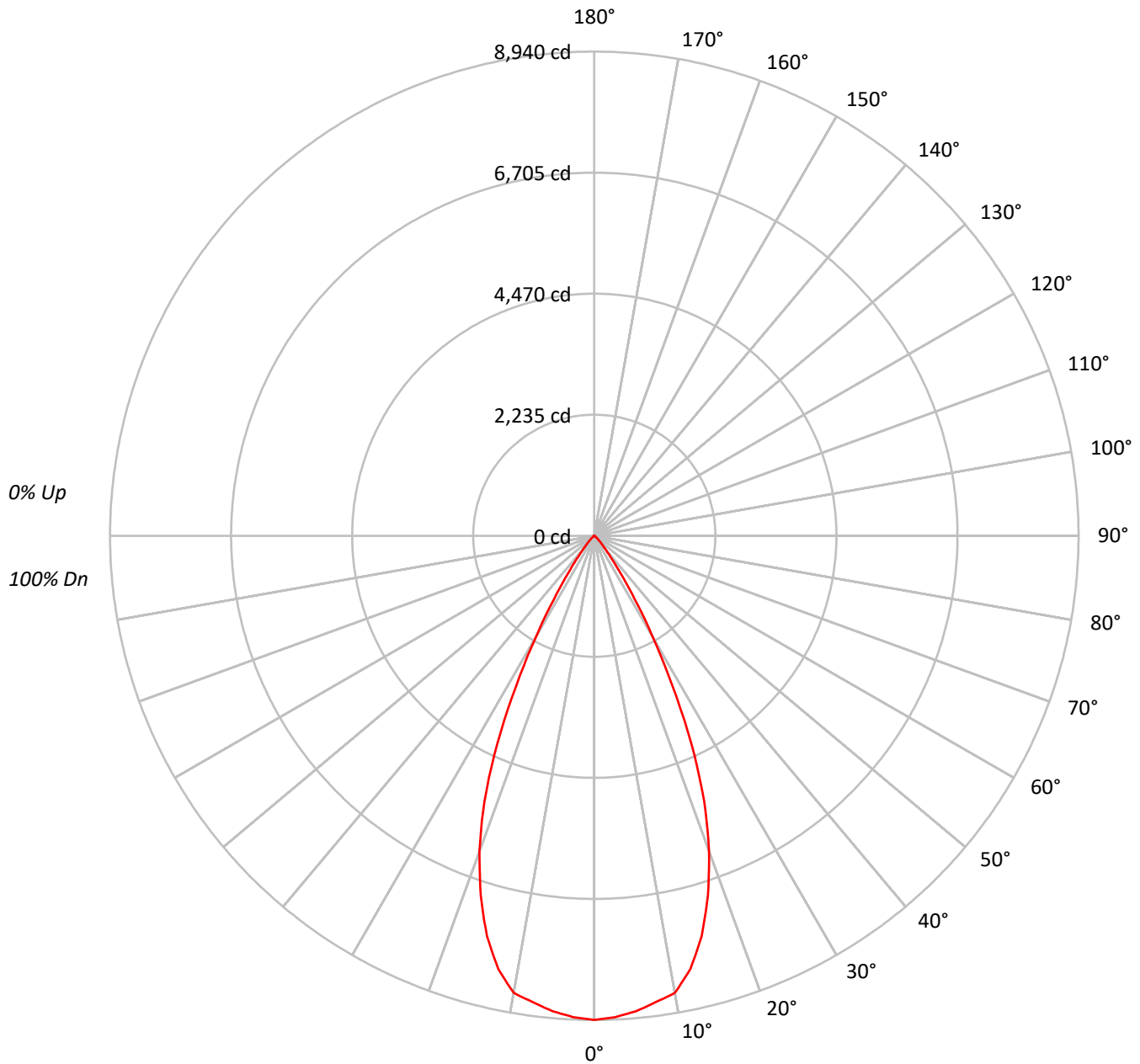


Downlight

TEST NUMBER: P781814

CATALOG NUMBER: LER4D50D010-EC4DR5040509030-4LBS1LI

Luminous Intensity Polar Plot





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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°	976835
5°	966593
10°	950676
15°	865670
20°	720334
25°	511326
30°	270646
35°	110294
40°	40963
45°	18758
50°	7683
55°	4019
60°	1967
65°	595
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18758 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.0	15.0
10°-20°	2105.2	37.9
20°-30°	1891.0	34.1
30°-40°	592.1	10.7
40°-50°	103.7	1.9
50°-60°	20.6	0.4
60°-70°	3.1	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°	4829.2	87.0
0°-40°	5421.3	97.7
0°-60°	5545.6	99.9
0°-90°	5548.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5548.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8940	
5°	8813	833
15°	7653	2105
25°	4241	1891
35°	827	592
45°	121	104
55°	21	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8940.4
2.5°	8895.9
5°	8813.0
7.5°	8686.4
10°	8568.8
12.5°	8191.9
15°	7653.0
17.5°	6968.6
20°	6195.2
22.5°	5300.5
25°	4241.4
27.5°	3118.3
30°	2145.2
32.5°	1396.7
35°	826.9
37.5°	474.9
40°	287.2
42.5°	186.9
45°	121.4
47.5°	73.9
50°	45.2
52.5°	30.9
55°	21.1
57.5°	14.3
60°	9.0
62.5°	5.3
65°	2.3
67.5°	0.8
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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)