

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: P781920

Luminaire Tested: LER4D50D010-EC4DR7040509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR7040509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5099.1 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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

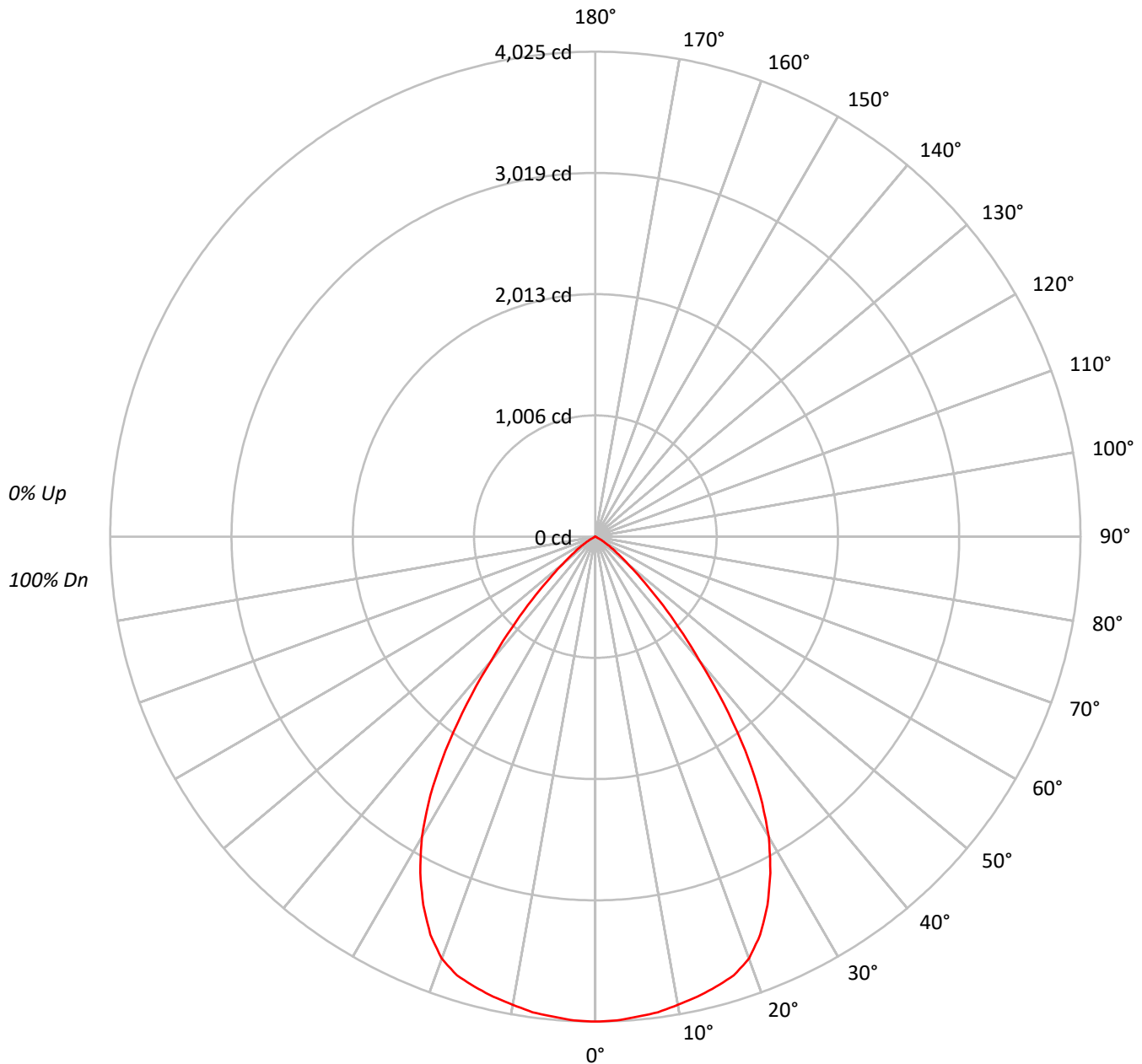


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	106	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	85	82		87	84	81		85	82	79
4	95	87	81	76		93	86	80	76		83	78	75		81	77	74		79	76	73
5	89	80	74	69		88	79	73	69		78	72	68		76	71	68		74	70	67
6	84	75	68	63		83	74	68	63		72	67	63		71	66	62		69	65	62
7	80	69	63	58		78	69	62	58		67	62	58		66	61	57		65	61	57
8	75	65	58	54		74	64	58	54		63	57	53		62	57	53		61	56	53
9	71	61	54	50		70	60	54	50		59	53	50		58	53	49		57	53	49
10	67	57	50	46		66	56	50	46		55	50	46		55	50	46		54	49	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	439742
5°	438636
10°	437683
15°	437563
20°	433291
25°	407021
30°	362859
35°	289307
40°	192108
45°	114853
50°	59544
55°	31298
60°	11079
65°	181
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 114853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	7.5
10°-20°	1090.8	21.4
20°-30°	1538.8	30.2
30°-40°	1328.4	26.1
40°-50°	594.9	11.7
50°-60°	155.8	3.1
60°-70°	10.1	0.2
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°	3009.9	59.0
0°-40°	4338.3	85.1
0°-60°	5089.0	99.8
0°-90°	5099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5099.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4025	
5°	3999	380
15°	3868	1091
25°	3376	1539
35°	2169	1328
45°	743	595
55°	164	156
65°	1	10
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4024.7
2.5°	4020.3
5°	3999.3
7.5°	3982.0
10°	3945.0
12.5°	3911.8
15°	3868.3
17.5°	3818.4
20°	3726.5
22.5°	3575.2
25°	3376.2
27.5°	3145.3
30°	2876.1
32.5°	2546.8
35°	2169.0
37.5°	1752.1
40°	1346.9
42.5°	1023.4
45°	743.3
47.5°	512.4
50°	350.3
52.5°	241.7
55°	164.3
57.5°	99.2
60°	50.7
62.5°	15.9
65°	0.7
67.5°	0.0
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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— 0°-180°







(END OF REPORT)