

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: P781697

Luminaire Tested: LER4D50D010-EC4DR2540509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781697
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: LER4D50D010-EC4DR2540509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 4599.7 lumens
Efficiency: N/A
Efficacy: 97.9 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): 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

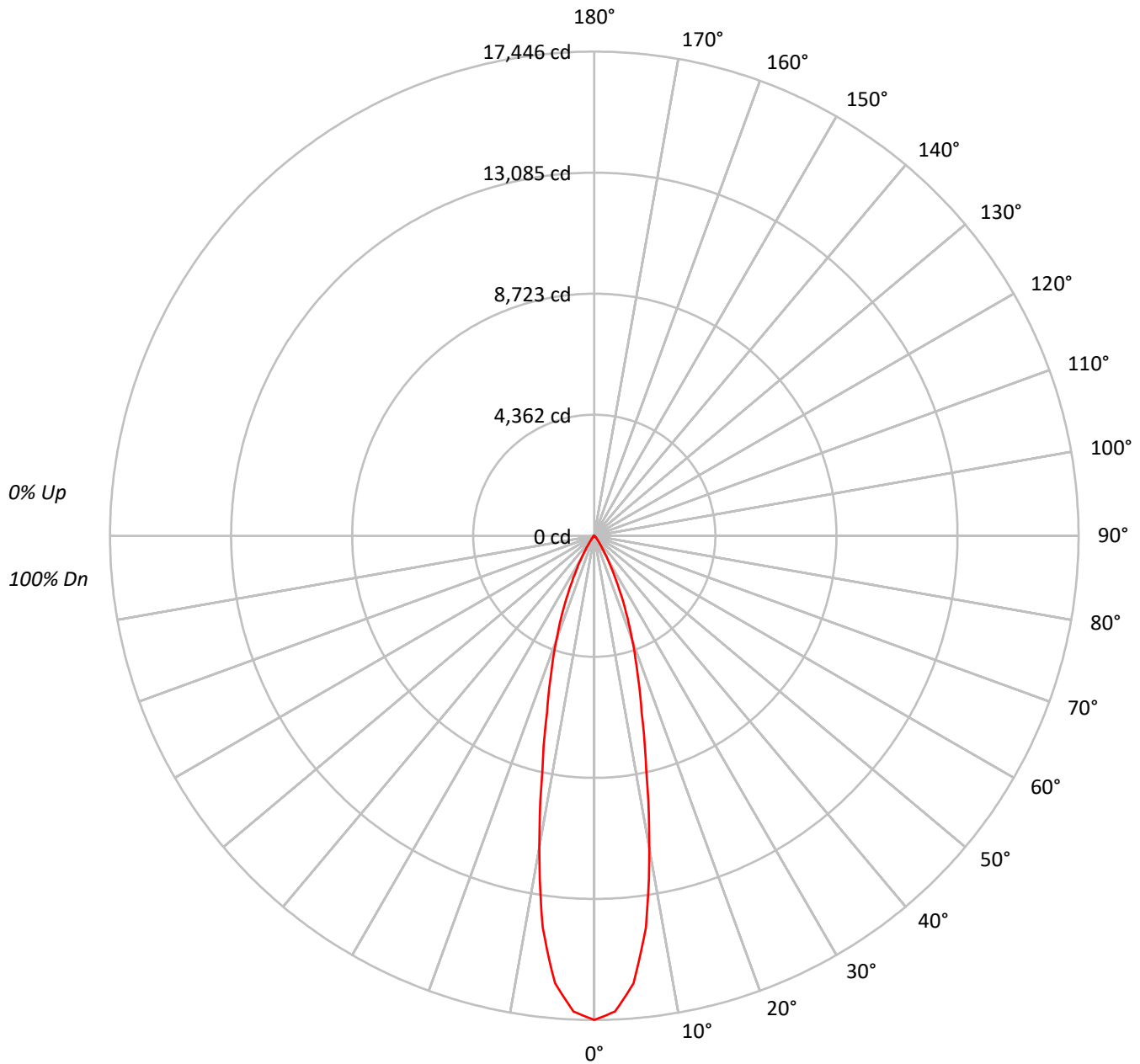


Downlight

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			96
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			92
3	107	102	98	95	105	101	97	94		98	95	93			96	93	91			89
4	103	97	93	90	102	96	93	90		94	91	89			93	90	88			85
5	100	93	89	86	98	93	89	86		91	87	85			89	86	84			82
6	97	90	85	82	95	89	85	82		88	84	81			87	83	81			79
7	93	87	82	79	92	86	82	79		85	81	78			84	80	78			77
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			74
9	88	81	76	73	87	80	76	73		80	76	73			79	75	73			72
10	85	78	74	71	85	78	74	71		77	73	71			76	73	71			69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1906108
5°	1775294
10°	1266363
15°	745847
20°	464068
25°	254686
30°	116474
35°	44110
40°	19982
45°	12006
50°	4980
55°	3219
60°	2251
65°	1525
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12006 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1391.1	30.2
10°-20°	1884.1	41.0
20°-30°	997.1	21.7
30°-40°	246.1	5.4
40°-50°	60.0	1.3
50°-60°	15.8	0.3
60°-70°	5.3	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°	4272.3	92.9
0°-40°	4518.4	98.2
0°-60°	4594.3	99.9
0°-90°	4599.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4599.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17446	
5°	16186	###
15°	6594	1884
25°	2113	997
35°	331	246
45°	78	60
55°	17	16
65°	6	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17445.5
2.5°	17158.8
5°	16186.4
7.5°	14233.0
10°	11414.2
12.5°	8628.5
15°	6593.7
17.5°	5138.8
20°	3991.2
22.5°	2993.2
25°	2112.6
27.5°	1416.7
30°	923.2
32.5°	561.7
35°	330.7
37.5°	202.4
40°	140.1
42.5°	107.1
45°	77.7
47.5°	46.9
50°	29.3
52.5°	21.3
55°	16.9
57.5°	13.2
60°	10.3
62.5°	8.1
65°	5.9
67.5°	2.2
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



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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)