

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: P781823

Luminaire Tested: LER4D50D010-EC4DR5040509040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781823
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-EC4DR5040509040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5310.1 lumens
Efficiency: N/A
Efficacy: 113.0 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

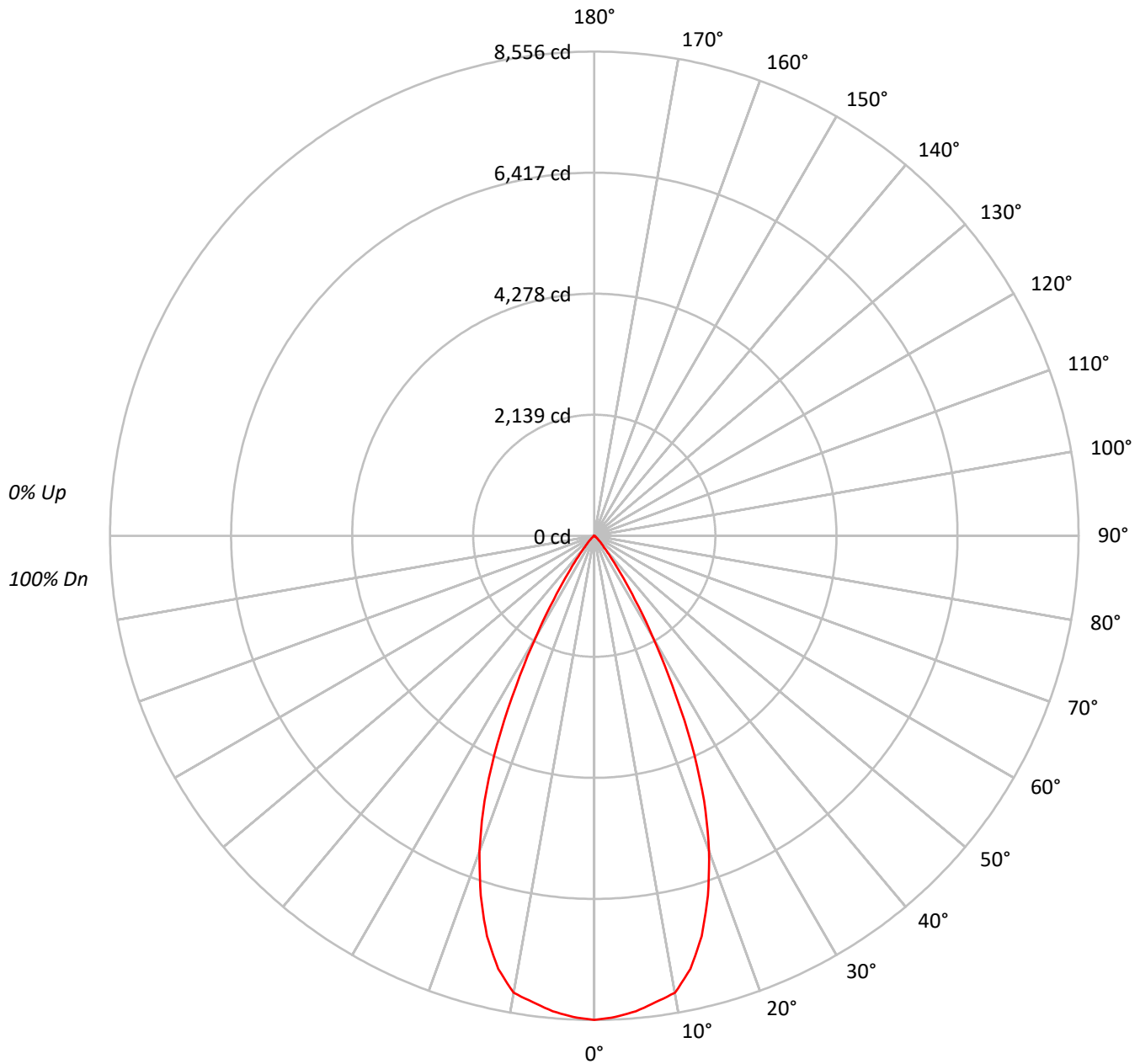


Downlight

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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	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	102	102	100
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	86	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	77	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	74	74	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	70	70	69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	66	66	65
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	63	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	60	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	934824
5°	925025
10°	909793
15°	828443
20°	689359
25°	489336
30°	259014
35°	105546
40°	39195
45°	17940
50°	7360
55°	3848
60°	1901
65°	569
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	797.2	15.0
10°-20°	2014.7	37.9
20°-30°	1809.7	34.1
30°-40°	566.6	10.7
40°-50°	99.2	1.9
50°-60°	19.8	0.4
60°-70°	3.0	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°	4621.5	87.0
0°-40°	5188.1	97.7
0°-60°	5307.1	99.9
0°-90°	5310.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5310.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8556	
5°	8434	797
15°	7324	2015
25°	4059	1810
35°	791	567
45°	116	99
55°	20	20
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8555.9
2.5°	8513.4
5°	8434.0
7.5°	8312.8
10°	8200.3
12.5°	7839.6
15°	7323.9
17.5°	6668.9
20°	5928.8
22.5°	5072.5
25°	4059.0
27.5°	2984.2
30°	2053.0
32.5°	1336.7
35°	791.3
37.5°	454.5
40°	274.8
42.5°	178.9
45°	116.1
47.5°	70.7
50°	43.3
52.5°	29.6
55°	20.2
57.5°	13.7
60°	8.7
62.5°	5.0
65°	2.2
67.5°	0.7
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)