

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: P779348

Luminaire Tested: LER4D08D010-EC4DR500210IC9040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779348
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: LER4D08D010-EC4DR500210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 837.9 lumens
Efficiency: N/A
Efficacy: 94.1 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): 8.9
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



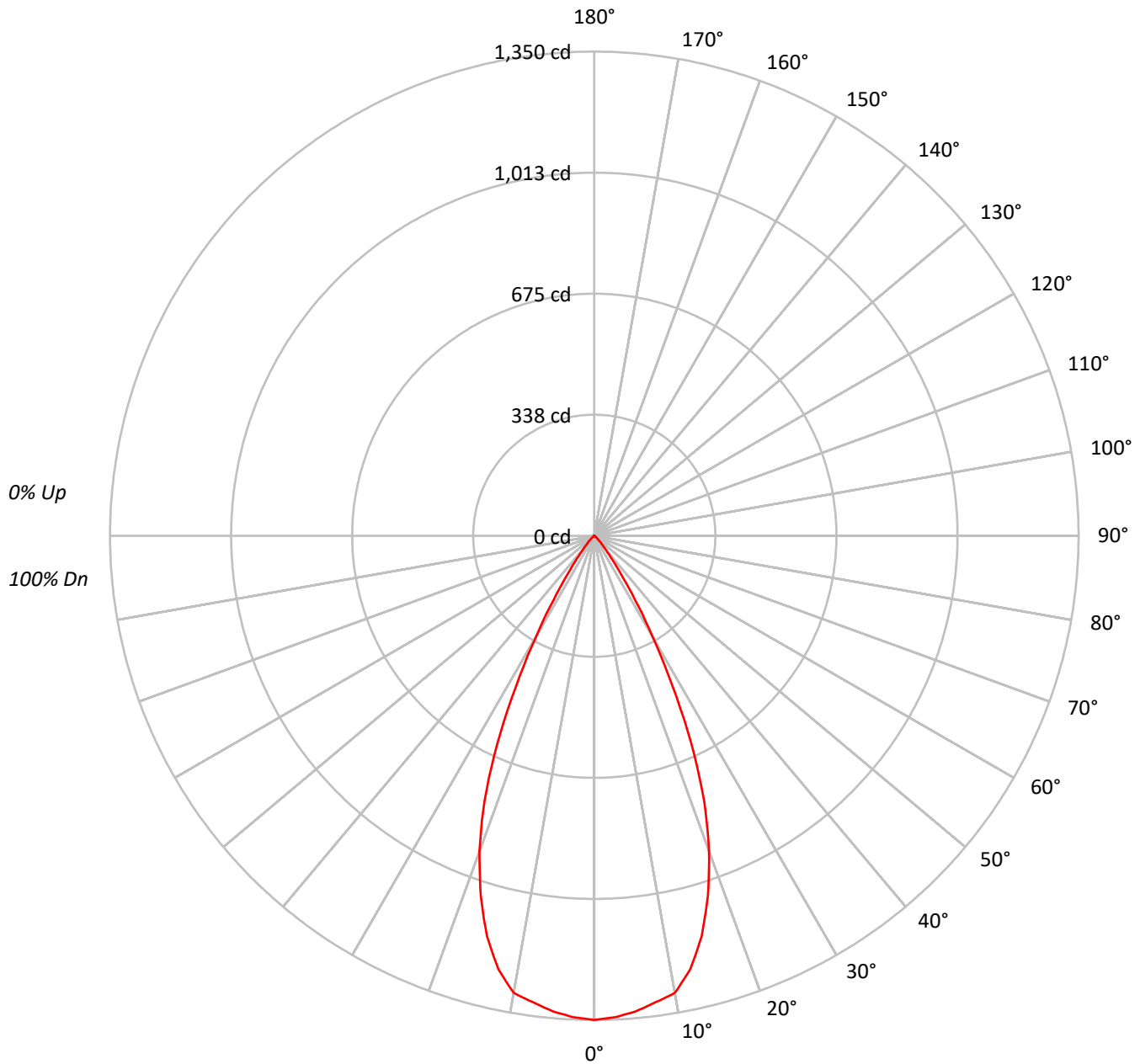
Downlight



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100						
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95						
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90						
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85						
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80						
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76						
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72						
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69						
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65						
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62						
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147513
5°	145971
10°	143564
15°	130727
20°	108785
25°	77216
30°	40864
35°	16646
40°	6190
45°	2828
50°	1156
55°	610
60°	306
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	15.0
10°-20°	317.9	37.9
20°-30°	285.6	34.1
30°-40°	89.4	10.7
40°-50°	15.7	1.9
50°-60°	3.1	0.4
60°-70°	0.5	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°	729.3	87.0
0°-40°	818.7	97.7
0°-60°	837.4	99.9
0°-90°	837.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	837.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1331	126
15°	1156	318
25°	640	286
35°	125	89
45°	18	16
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1350.1
2.5°	1343.4
5°	1330.9
7.5°	1311.8
10°	1294.0
12.5°	1237.1
15°	1155.7
17.5°	1052.3
20°	935.6
22.5°	800.5
25°	640.5
27.5°	470.9
30°	323.9
32.5°	210.9
35°	124.8
37.5°	71.7
40°	43.4
42.5°	28.2
45°	18.3
47.5°	11.2
50°	6.8
52.5°	4.6
55°	3.2
57.5°	2.2
60°	1.4
62.5°	0.8
65°	0.3
67.5°	0.1
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)