

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: P785325

Luminaire Tested: LER4DD50D010-EC4DR7040509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR7040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5167.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

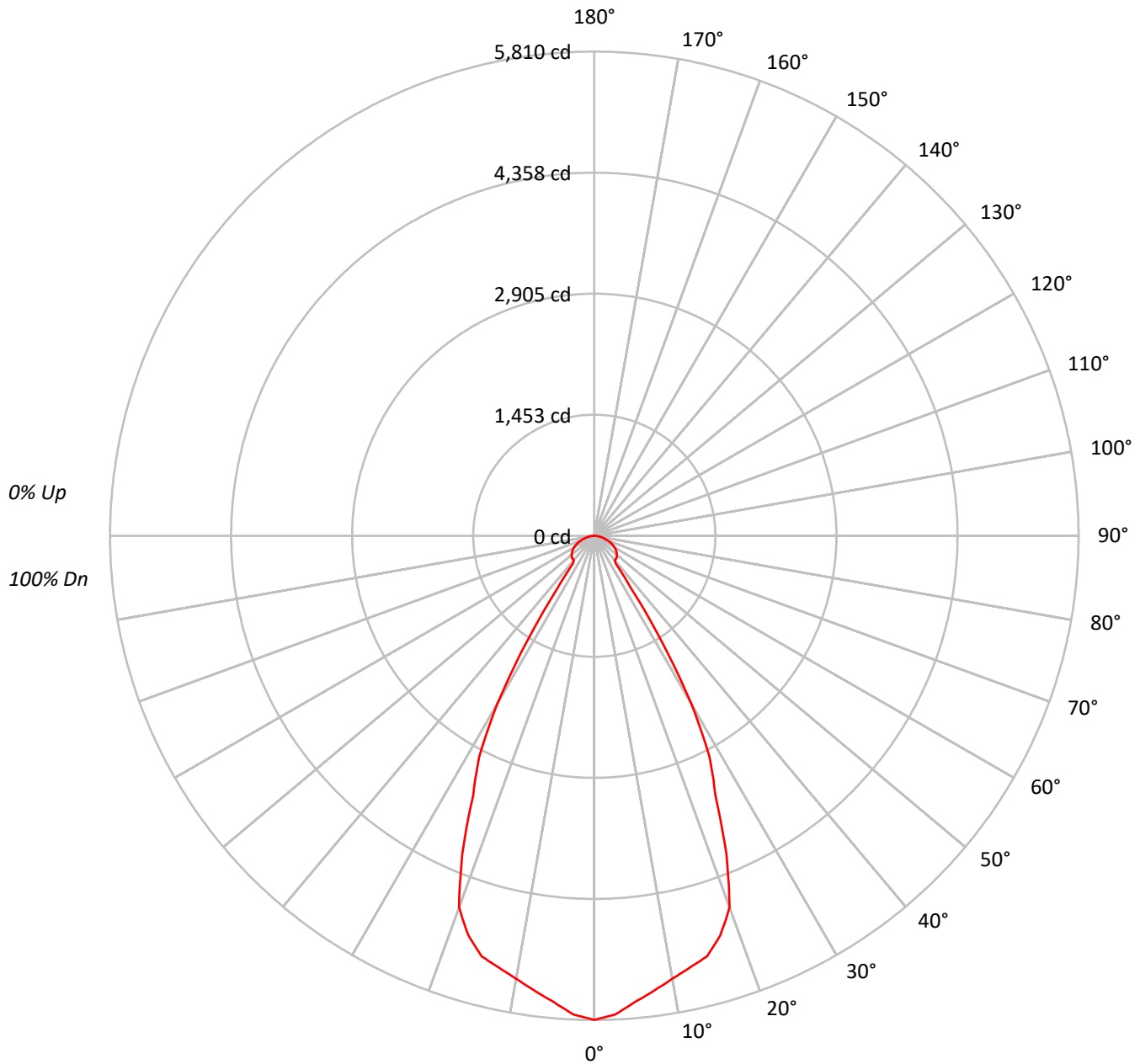


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	634750
5°	615886
10°	598722
15°	590868
20°	551750
25°	414495
30°	293015
35°	103798
40°	54570
45°	58130
50°	60190
55°	61319
60°	61710
65°	60393
70°	56991
75°	52811
80°	46876
85°	38110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 61717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.7	10.3
10°-20°	1452.8	28.1
20°-30°	1600.1	31.0
30°-40°	611.4	11.8
40°-50°	288.7	5.6
50°-60°	287.0	5.6
60°-70°	229.8	4.4
70°-80°	132.0	2.6
80°-90°	35.9	0.7
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°	3582.6	69.3
0°-40°	4193.9	81.2
0°-60°	4769.5	92.3
0°-90°	5167.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5167.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5810	
5°	5615	530
15°	5224	1453
25°	3438	1600
35°	778	611
45°	376	289
55°	322	287
65°	234	230
75°	125	132
85°	30	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5809.5
2.5°	5748.8
5°	5615.4
7.5°	5504.1
10°	5396.5
12.5°	5305.5
15°	5223.6
17.5°	5025.8
20°	4745.3
22.5°	4140.1
25°	3438.2
27.5°	2993.1
30°	2322.5
32.5°	1500.2
35°	778.2
37.5°	420.4
40°	382.6
42.5°	379.9
45°	376.2
47.5°	367.9
50°	354.1
52.5°	338.5
55°	321.9
57.5°	303.5
60°	282.4
62.5°	258.5
65°	233.6
67.5°	206.0
70°	178.4
72.5°	150.8
75°	125.1
77.5°	98.4
80°	74.5
82.5°	52.4
85°	30.4
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)