

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: P785330

Luminaire Tested: LER4DD50D010-EC4DR7040509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785330
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-EC4DR7040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5464.4 lumens
Efficiency: N/A
Efficacy: 116.3 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

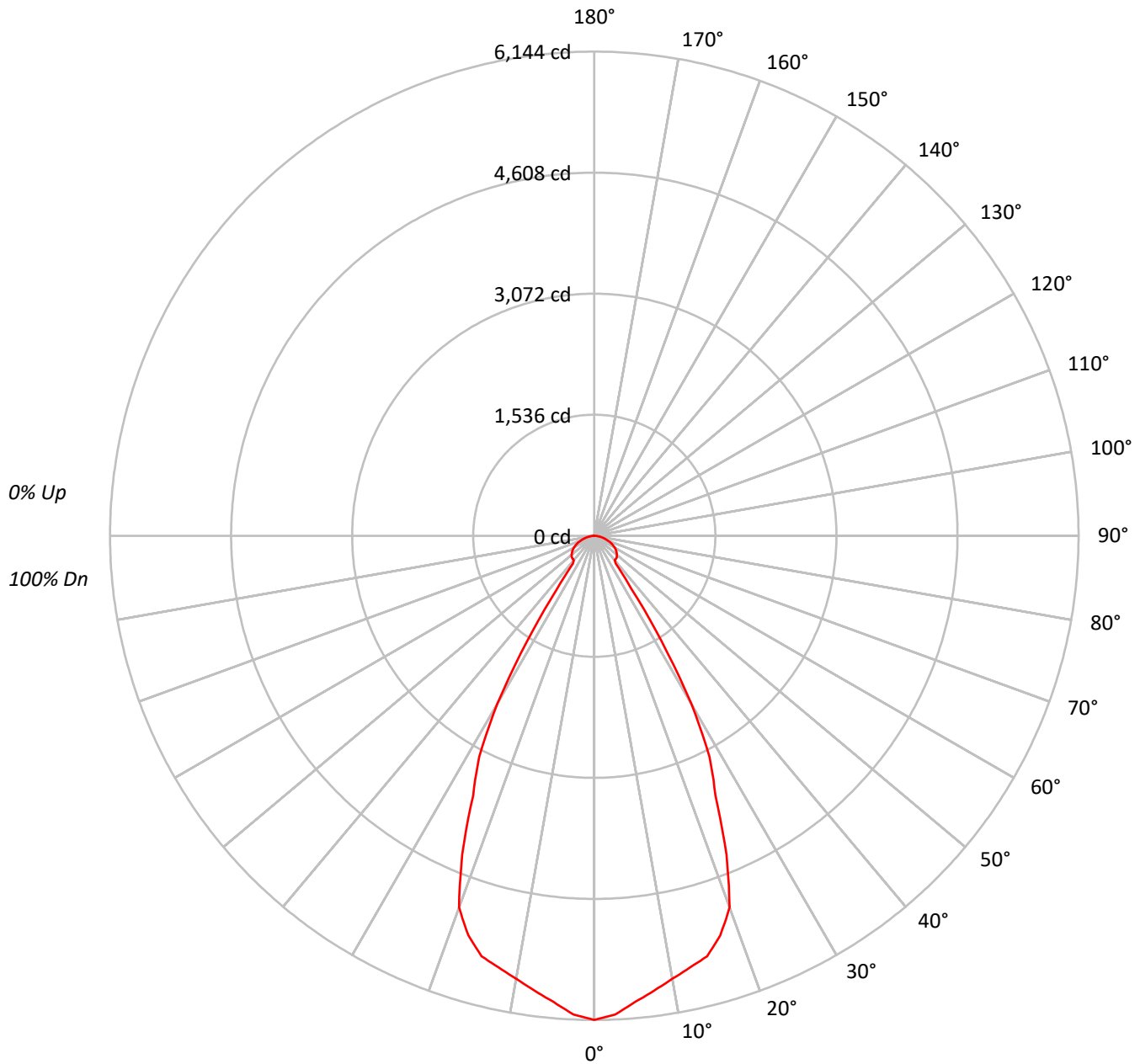


Downlight

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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				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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	671254
5°	651302
10°	633148
15°	624836
20°	583469
25°	438329
30°	309870
35°	109761
40°	57708
45°	61467
50°	63657
55°	64843
60°	65251
65°	63883
70°	60282
75°	55851
80°	49582
85°	40241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 65276 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.1	10.3
10°-20°	1536.4	28.1
20°-30°	1692.1	31.0
30°-40°	646.5	11.8
40°-50°	305.3	5.6
50°-60°	303.5	5.6
60°-70°	243.0	4.4
70°-80°	139.7	2.6
80°-90°	37.9	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°	3788.5	69.3
0°-40°	4435.1	81.2
0°-60°	5043.8	92.3
0°-90°	5464.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5464.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6144	
5°	5938	560
15°	5524	1536
25°	3636	1692
35°	823	647
45°	398	305
55°	340	303
65°	247	243
75°	132	140
85°	32	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6143.6
2.5°	6079.4
5°	5938.3
7.5°	5820.6
10°	5706.8
12.5°	5610.5
15°	5523.9
17.5°	5314.8
20°	5018.1
22.5°	4378.1
25°	3635.9
27.5°	3165.2
30°	2456.1
32.5°	1586.5
35°	822.9
37.5°	444.5
40°	404.6
42.5°	401.7
45°	397.8
47.5°	389.1
50°	374.5
52.5°	358.0
55°	340.4
57.5°	321.0
60°	298.6
62.5°	273.3
65°	247.1
67.5°	217.9
70°	188.7
72.5°	159.5
75°	132.3
77.5°	104.1
80°	78.8
82.5°	55.4
85°	32.1
87.5°	12.6
90°	0.0



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— 0°-180°







(END OF REPORT)