

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: P784851

Luminaire Tested: LER4DD40BD010-EC4DR7040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784851
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: LER4DD40BD010-EC4DR7040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160.0 lumens
Efficiency: N/A
Efficacy: 89.8 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): 35.2
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

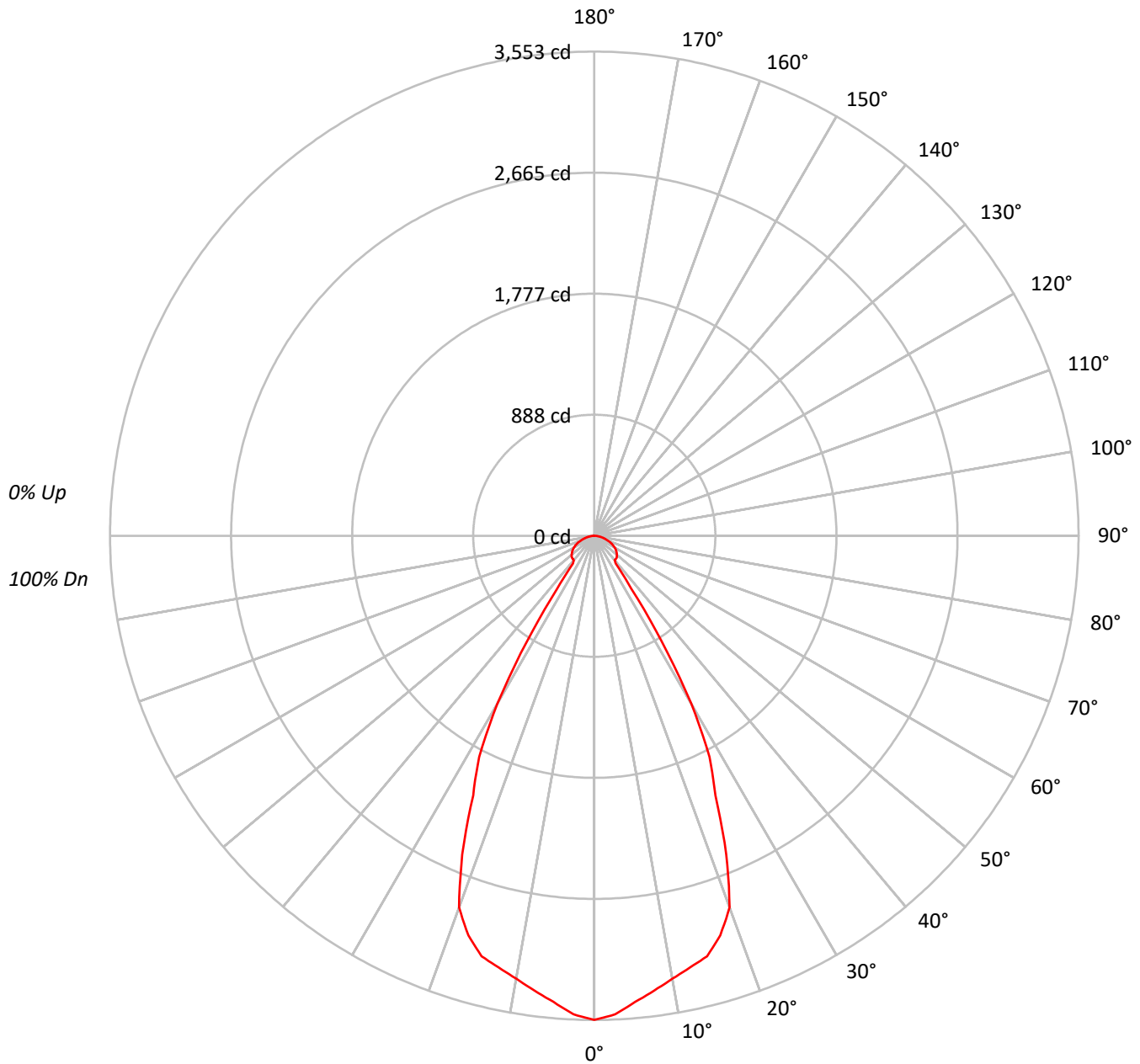


Downlight

TEST NUMBER: P784851

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P784851

CATALOG NUMBER: LER4DD40BD010-EC4DR7040509050-4LB DP1MW

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	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°	388160
5°	376624
10°	366123
15°	361323
20°	337401
25°	253469
30°	179190
35°	63477
40°	33375
45°	35555
50°	36818
55°	37508
60°	37739
65°	36944
70°	34853
75°	32295
80°	28692
85°	23317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 37742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	10.2
10°-20°	888.4	28.1
20°-30°	978.5	31.0
30°-40°	373.9	11.8
40°-50°	176.5	5.6
50°-60°	175.5	5.6
60°-70°	140.5	4.4
70°-80°	80.7	2.6
80°-90°	22.0	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°	2190.8	69.3
0°-40°	2564.7	81.2
0°-60°	2916.7	92.3
0°-90°	3160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3553	
5°	3434	324
15°	3194	888
25°	2102	978
35°	476	374
45°	230	177
55°	197	176
65°	143	141
75°	76	81
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3552.6
2.5°	3515.5
5°	3433.9
7.5°	3365.9
10°	3300.0
12.5°	3244.4
15°	3194.3
17.5°	3073.4
20°	2901.8
22.5°	2531.7
25°	2102.5
27.5°	1830.3
30°	1420.3
32.5°	917.4
35°	475.9
37.5°	257.1
40°	234.0
42.5°	232.3
45°	230.1
47.5°	225.0
50°	216.6
52.5°	207.0
55°	196.9
57.5°	185.6
60°	172.7
62.5°	158.1
65°	142.9
67.5°	126.0
70°	109.1
72.5°	92.2
75°	76.5
77.5°	60.2
80°	45.6
82.5°	32.1
85°	18.6
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)