

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: P784835

Luminaire Tested: LER4DD40BD010-EC4DR7040509027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784835
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-EC4DR7040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.1 lumens
Efficiency: N/A
Efficacy: 81.8 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

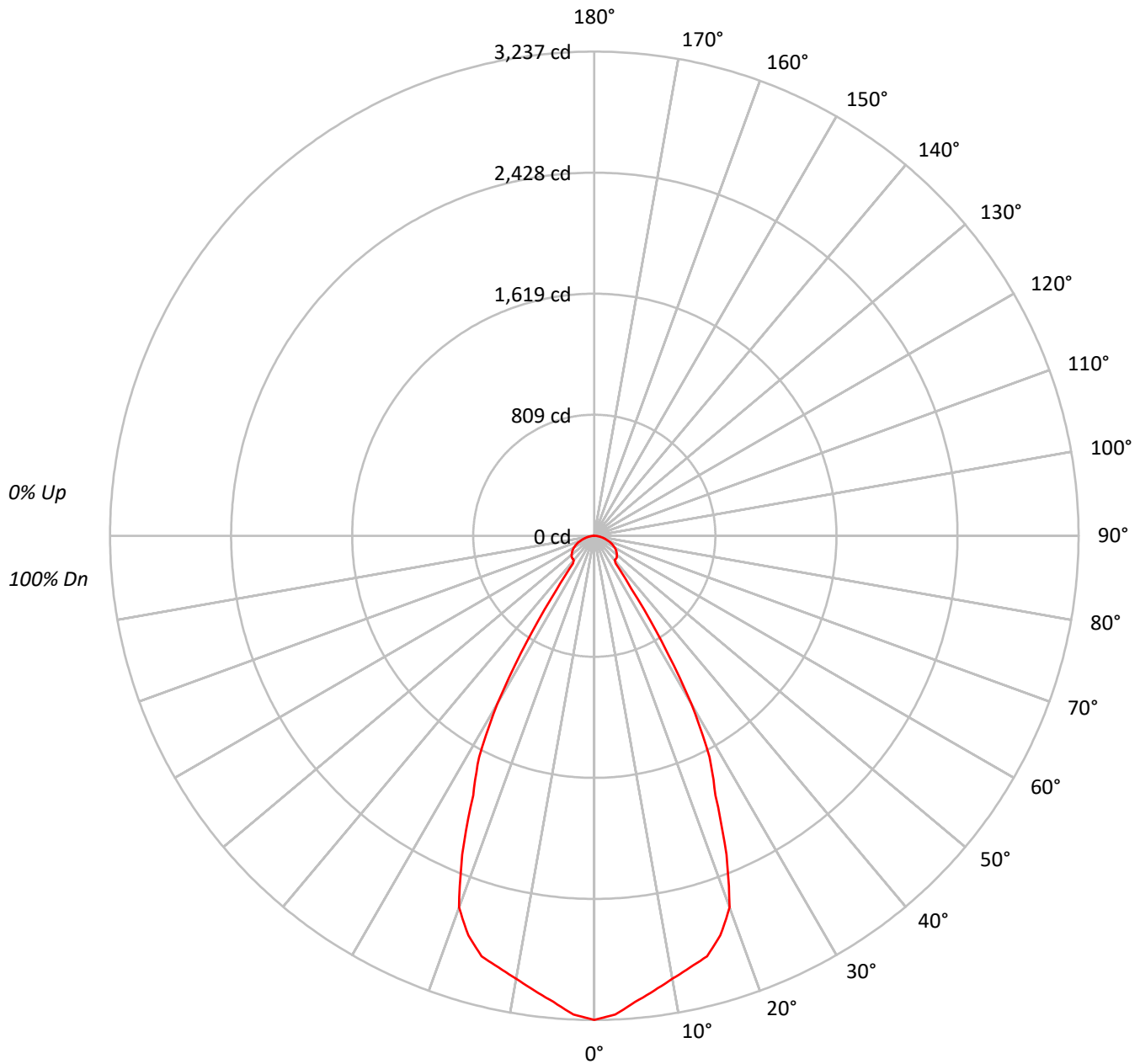


Downlight

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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°	353666
5°	343161
10°	333593
15°	329221
20°	307425
25°	230949
30°	163256
35°	57835
40°	30409
45°	32387
50°	33537
55°	34174
60°	34373
65°	33661
70°	31754
75°	29424
80°	26112
85°	21186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 34387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	10.3
10°-20°	809.5	28.1
20°-30°	891.5	31.0
30°-40°	340.6	11.8
40°-50°	160.8	5.6
50°-60°	159.9	5.6
60°-70°	128.0	4.4
70°-80°	73.6	2.6
80°-90°	20.0	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°	1996.1	69.3
0°-40°	2336.8	81.2
0°-60°	2657.5	92.3
0°-90°	2879.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3237	
5°	3129	295
15°	2910	809
25°	1916	892
35°	434	341
45°	210	161
55°	179	160
65°	130	128
75°	70	74
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3236.9
2.5°	3203.1
5°	3128.8
7.5°	3066.8
10°	3006.8
12.5°	2956.1
15°	2910.5
17.5°	2800.3
20°	2644.0
22.5°	2306.7
25°	1915.7
27.5°	1667.7
30°	1294.0
32.5°	835.9
35°	433.6
37.5°	234.2
40°	213.2
42.5°	211.7
45°	209.6
47.5°	205.0
50°	197.3
52.5°	188.6
55°	179.4
57.5°	169.1
60°	157.3
62.5°	144.0
65°	130.2
67.5°	114.8
70°	99.4
72.5°	84.0
75°	69.7
77.5°	54.8
80°	41.5
82.5°	29.2
85°	16.9
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)