

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: P784799

Luminaire Tested: LER4DD40BD010-EC4DR6040509040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR6040509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3613.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

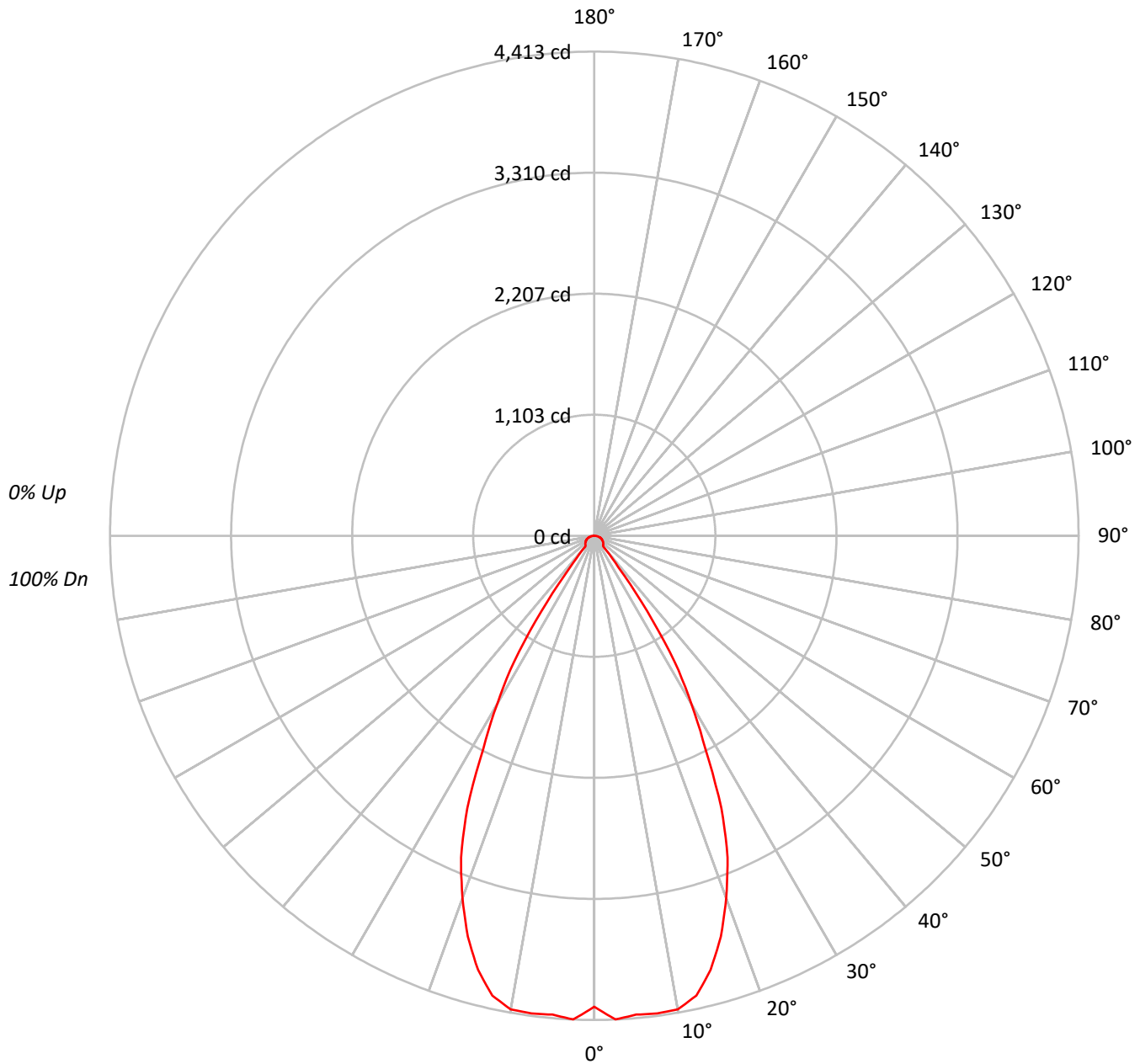


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	95		105	101	97	94		97	94	92		94	92	90		92	90	88
3	102	96	90	86		100	94	89	86		91	88	84		89	86	83		87	84	82
4	97	89	84	80		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74		91	83	78	74		81	77	73		80	76	72		78	75	72
6	88	79	73	69		87	78	73	69		77	72	68		75	71	68		74	70	67
7	84	75	69	65		83	74	68	64		73	68	64		72	67	64		71	67	63
8	80	71	65	61		79	70	65	61		69	64	60		68	64	60		67	63	60
9	77	67	61	57		75	67	61	57		66	61	57		65	60	57		64	60	57
10	73	64	58	54		72	63	58	54		62	58	54		62	57	54		61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	468947
5°	480478
10°	486278
15°	463251
20°	408443
25°	330359
30°	223461
35°	111975
40°	18171
45°	17785
50°	18137
55°	18401
60°	18924
65°	19338
70°	19806
75°	20052
80°	19317
85°	16046

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 20052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	11.6
10°-20°	1132.8	31.3
20°-30°	1218.8	33.7
30°-40°	529.8	14.7
40°-50°	89.0	2.5
50°-60°	86.5	2.4
60°-70°	74.0	2.0
70°-80°	49.5	1.4
80°-90°	14.8	0.4
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°	2770.3	76.7
0°-40°	3300.1	91.3
0°-60°	3475.6	96.2
0°-90°	3613.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3613.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4292	
5°	4381	419
15°	4095	1133
25°	2740	1219
35°	840	530
45°	115	89
55°	97	87
65°	75	74
75°	48	50
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4292.0
2.5°	4412.6
5°	4380.8
7.5°	4390.8
10°	4383.0
12.5°	4292.5
15°	4095.4
17.5°	3830.6
20°	3512.8
22.5°	3172.6
25°	2740.3
27.5°	2191.8
30°	1771.2
32.5°	1365.1
35°	839.5
37.5°	359.2
40°	127.4
42.5°	117.3
45°	115.1
47.5°	111.2
50°	106.7
52.5°	101.7
55°	96.6
57.5°	91.6
60°	86.6
62.5°	81.0
65°	74.8
67.5°	68.7
70°	62.0
72.5°	54.7
75°	47.5
77.5°	39.1
80°	30.7
82.5°	21.8
85°	12.8
87.5°	4.5
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)