

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: P784849

Luminaire Tested: LER4DD40BD010-EC4DR7040509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784849
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-EC4DR7040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 4045.4 lumens
Efficiency: N/A
Efficacy: 114.9 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): 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

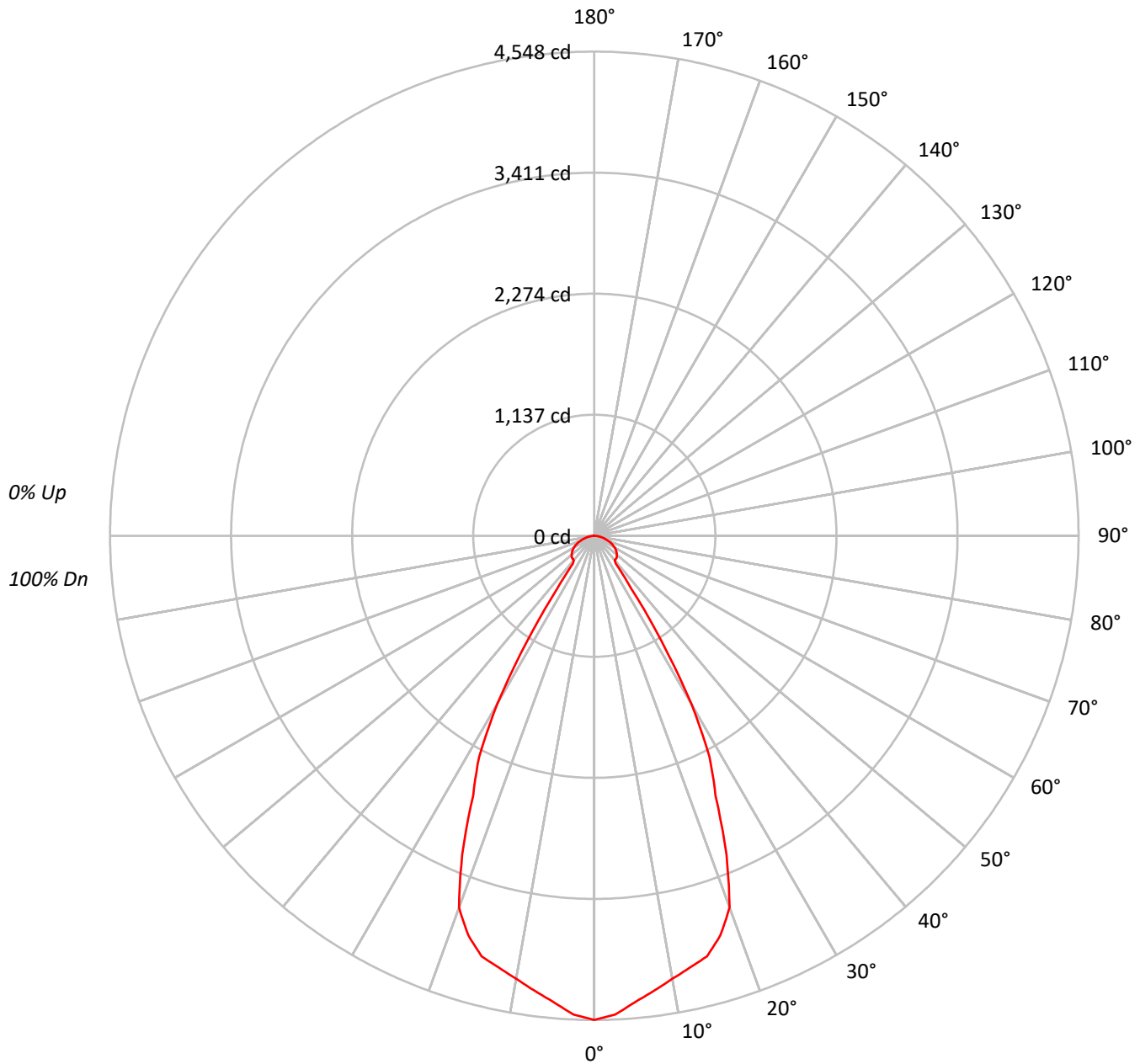


Downlight

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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°	496940
5°	482178
10°	468737
15°	462584
20°	431965
25°	324512
30°	229403
35°	81257
40°	42732
45°	45506
50°	47118
55°	48004
60°	48315
65°	47286
70°	44628
75°	41329
80°	36683
85°	29836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 48316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.7	10.3
10°-20°	1137.4	28.1
20°-30°	1252.7	31.0
30°-40°	478.6	11.8
40°-50°	226.0	5.6
50°-60°	224.7	5.6
60°-70°	179.9	4.4
70°-80°	103.4	2.6
80°-90°	28.1	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°	2804.8	69.3
0°-40°	3283.4	81.2
0°-60°	3734.0	92.3
0°-90°	4045.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4548	
5°	4396	415
15°	4090	1137
25°	2692	1253
35°	609	479
45°	294	226
55°	252	225
65°	183	180
75°	98	103
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4548.2
2.5°	4500.7
5°	4396.3
7.5°	4309.2
10°	4224.9
12.5°	4153.6
15°	4089.5
17.5°	3934.7
20°	3715.1
22.5°	3241.2
25°	2691.8
27.5°	2343.2
30°	1818.3
32.5°	1174.5
35°	609.2
37.5°	329.1
40°	299.6
42.5°	297.4
45°	294.5
47.5°	288.0
50°	277.2
52.5°	265.0
55°	252.0
57.5°	237.6
60°	221.1
62.5°	202.4
65°	182.9
67.5°	161.3
70°	139.7
72.5°	118.1
75°	97.9
77.5°	77.1
80°	58.3
82.5°	41.0
85°	23.8
87.5°	9.4
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)