

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: P784845

Luminaire Tested: LER4DD40BD010-EC4DR7040509040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784845
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-EC4DR7040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.8 lumens
Efficiency: N/A
Efficacy: 114.1 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

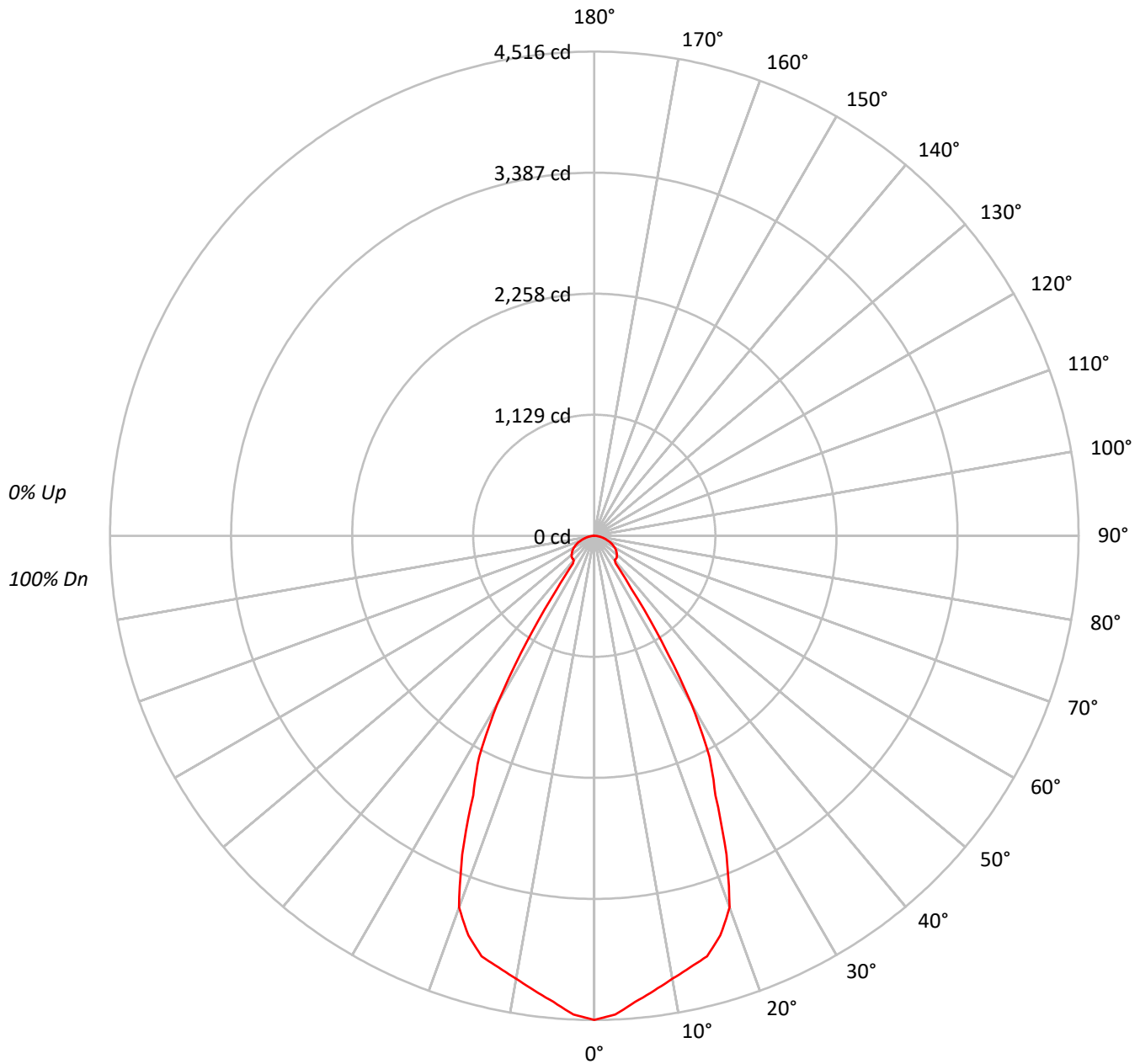


Downlight

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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°	493422
5°	478756
10°	465409
15°	459304
20°	428896
25°	322210
30°	227775
35°	80683
40°	42418
45°	45181
50°	46795
55°	47680
60°	47965
65°	46950
70°	44309
75°	41033
80°	36431
85°	29586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 47991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.7	10.3
10°-20°	1129.3	28.1
20°-30°	1243.8	31.0
30°-40°	475.2	11.8
40°-50°	224.4	5.6
50°-60°	223.1	5.6
60°-70°	178.6	4.4
70°-80°	102.6	2.6
80°-90°	27.9	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°	2784.9	69.3
0°-40°	3260.1	81.2
0°-60°	3707.6	92.3
0°-90°	4016.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4516	
5°	4365	412
15°	4060	1129
25°	2673	1244
35°	605	475
45°	292	224
55°	250	223
65°	182	179
75°	97	103
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4516.0
2.5°	4468.8
5°	4365.1
7.5°	4278.6
10°	4194.9
12.5°	4124.2
15°	4060.5
17.5°	3906.8
20°	3688.7
22.5°	3218.2
25°	2672.7
27.5°	2326.6
30°	1805.4
32.5°	1166.2
35°	604.9
37.5°	326.8
40°	297.4
42.5°	295.3
45°	292.4
47.5°	286.0
50°	275.3
52.5°	263.1
55°	250.3
57.5°	236.0
60°	219.5
62.5°	200.9
65°	181.6
67.5°	160.2
70°	138.7
72.5°	117.3
75°	97.2
77.5°	76.5
80°	57.9
82.5°	40.8
85°	23.6
87.5°	9.3
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)