

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: P784606

Luminaire Tested: LER4DD35BD010-EC4DR7020359040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784606
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: LER4DD35BD010-EC4DR7020359040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 3582.7 lumens
Efficiency: N/A
Efficacy: 116.3 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): 30.8
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

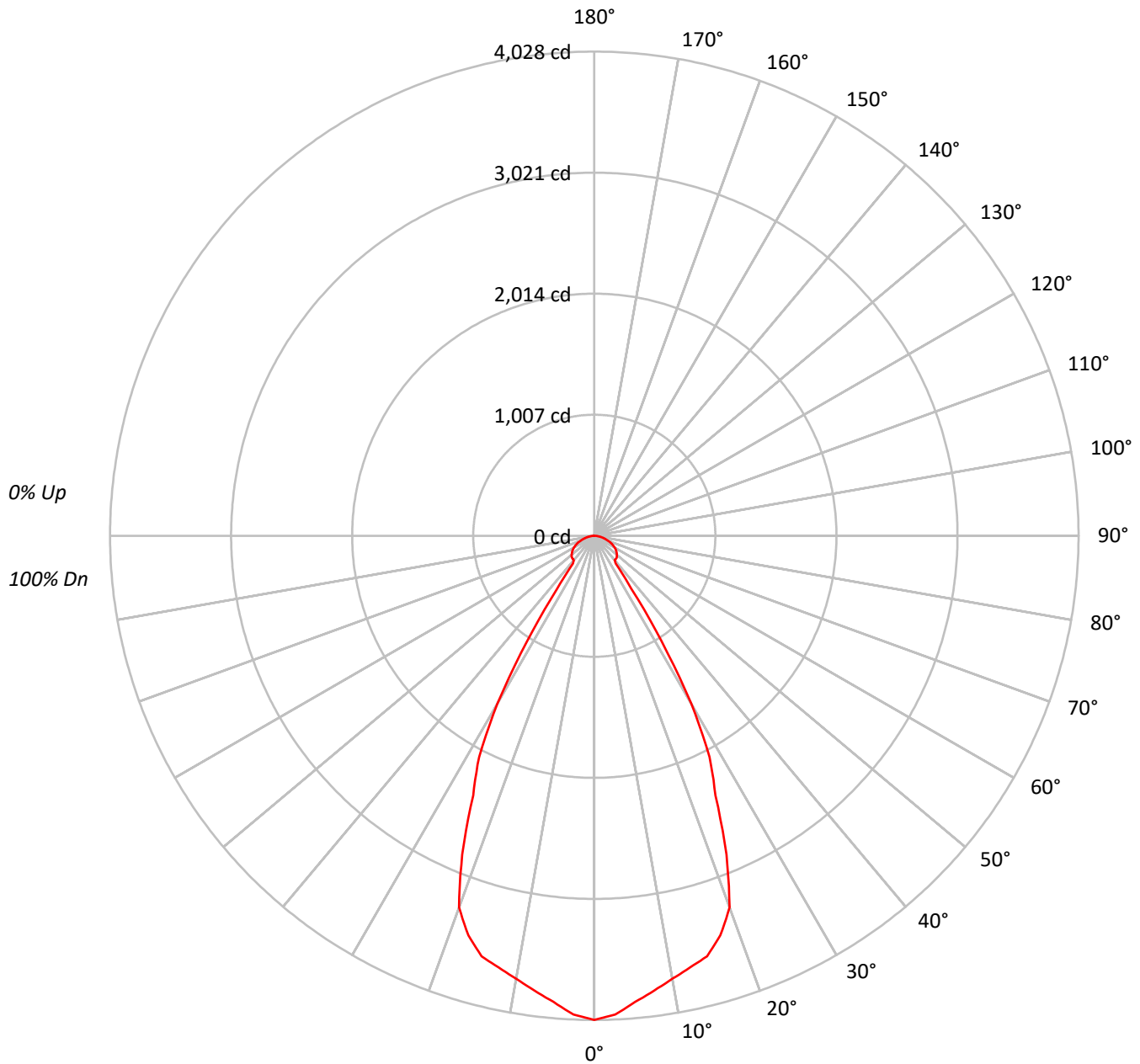


Downlight

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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°	440102
5°	427021
10°	415117
15°	409669
20°	382549
25°	287393
30°	203161
35°	71960
40°	37840
45°	40298
50°	41730
55°	42517
60°	42787
65°	41882
70°	39517
75°	36601
80°	32530
85°	26326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 42806 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	10.3
10°-20°	1007.3	28.1
20°-30°	1109.4	31.0
30°-40°	423.9	11.8
40°-50°	200.1	5.6
50°-60°	199.0	5.6
60°-70°	159.3	4.4
70°-80°	91.5	2.6
80°-90°	24.9	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°	2483.9	69.3
0°-40°	2907.8	81.2
0°-60°	3306.9	92.3
0°-90°	3582.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3582.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4028	
5°	3893	367
15°	3622	1007
25°	2384	1109
35°	540	424
45°	261	200
55°	223	199
65°	162	159
75°	87	92
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4028.0
2.5°	3985.9
5°	3893.4
7.5°	3816.3
10°	3741.6
12.5°	3678.5
15°	3621.7
17.5°	3484.6
20°	3290.1
22.5°	2870.5
25°	2383.9
27.5°	2075.2
30°	1610.3
32.5°	1040.2
35°	539.5
37.5°	291.4
40°	265.3
42.5°	263.4
45°	260.8
47.5°	255.1
50°	245.5
52.5°	234.7
55°	223.2
57.5°	210.5
60°	195.8
62.5°	179.2
65°	162.0
67.5°	142.9
70°	123.7
72.5°	104.6
75°	86.7
77.5°	68.2
80°	51.7
82.5°	36.4
85°	21.0
87.5°	8.3
90°	0.0



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— 0°-180°







(END OF REPORT)