

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: P781413

Luminaire Tested: LER4D40BD010-EC4DR6540509040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR6540509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3670.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

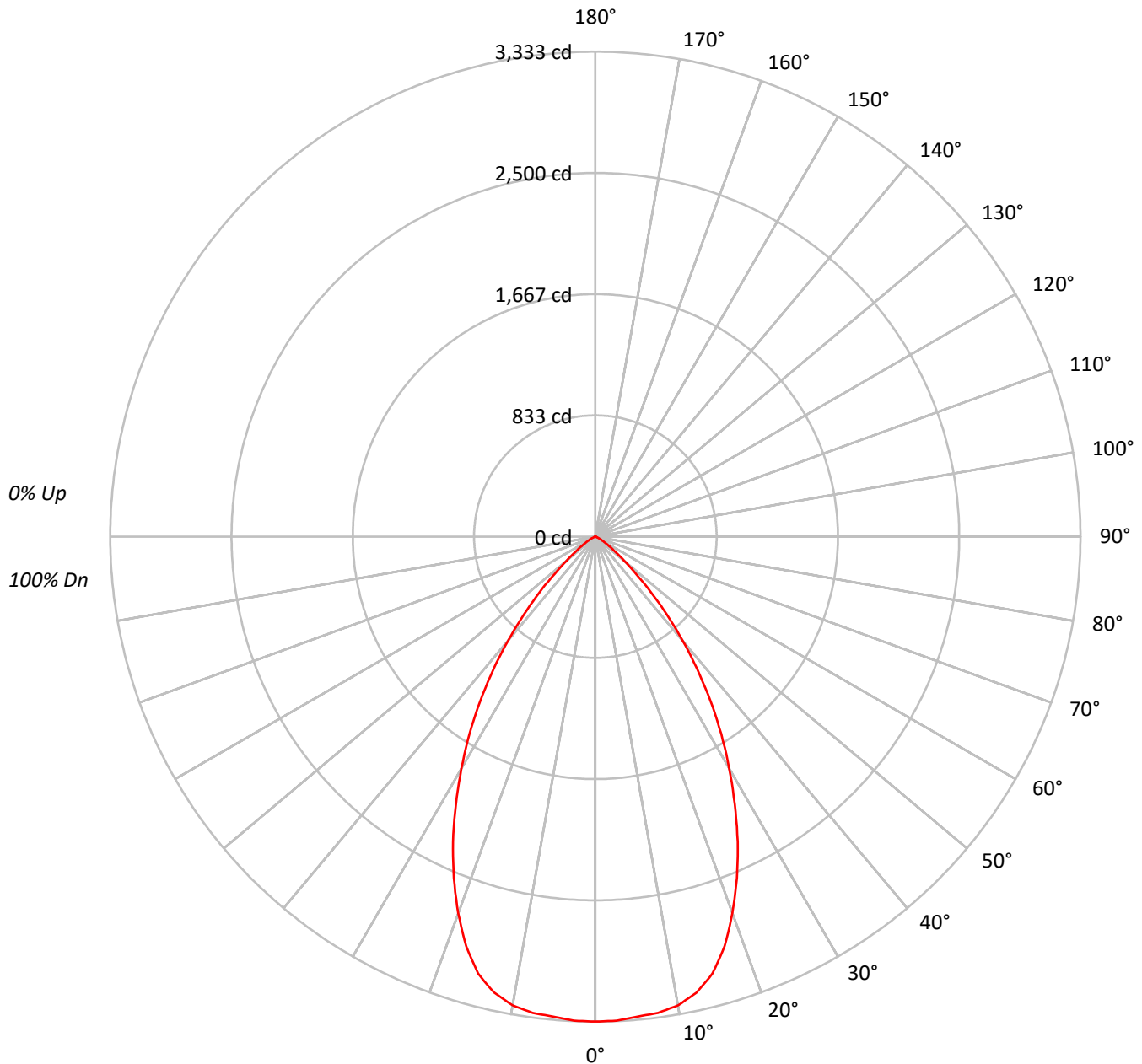


Downlight

TEST NUMBER: P781413

CATALOG NUMBER: LER4D40BD010-EC4DR6540509040-4LBS1H

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	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	194637
5°	194143
10°	193980
15°	188001
20°	171148
25°	149144
30°	124047
35°	98291
40°	70942
45°	44816
50°	23360
55°	12412
60°	6518
65°	3593
70°	1503
75°	1647
80°	1144
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44816 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	8.6
10°-20°	863.0	23.5
20°-30°	1054.9	28.7
30°-40°	855.9	23.3
40°-50°	426.5	11.6
50°-60°	119.0	3.2
60°-70°	27.0	0.7
70°-80°	7.0	0.2
80°-90°	1.8	0.0
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°	2233.1	60.8
0°-40°	3089.0	84.2
0°-60°	3634.5	99.0
0°-90°	3670.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3670.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3333	
5°	3312	315
15°	3109	863
25°	2314	1055
35°	1379	856
45°	543	427
55°	122	119
65°	26	27
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3332.6
2.5°	3330.1
5°	3311.5
7.5°	3300.8
10°	3270.9
12.5°	3210.2
15°	3109.3
17.5°	2951.6
20°	2753.7
22.5°	2540.2
25°	2314.4
27.5°	2073.0
30°	1839.4
32.5°	1608.8
35°	1378.6
37.5°	1148.9
40°	930.5
42.5°	725.8
45°	542.6
47.5°	378.1
50°	257.1
52.5°	177.3
55°	121.9
57.5°	82.3
60°	55.8
62.5°	38.7
65°	26.0
67.5°	13.2
70°	8.8
72.5°	8.3
75°	7.3
77.5°	4.9
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)