

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: P781417

Luminaire Tested: LER4D40BD010-EC4DR6540509050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781417
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-EC4DR6540509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.6 lumens
Efficiency: N/A
Efficacy: 105.0 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

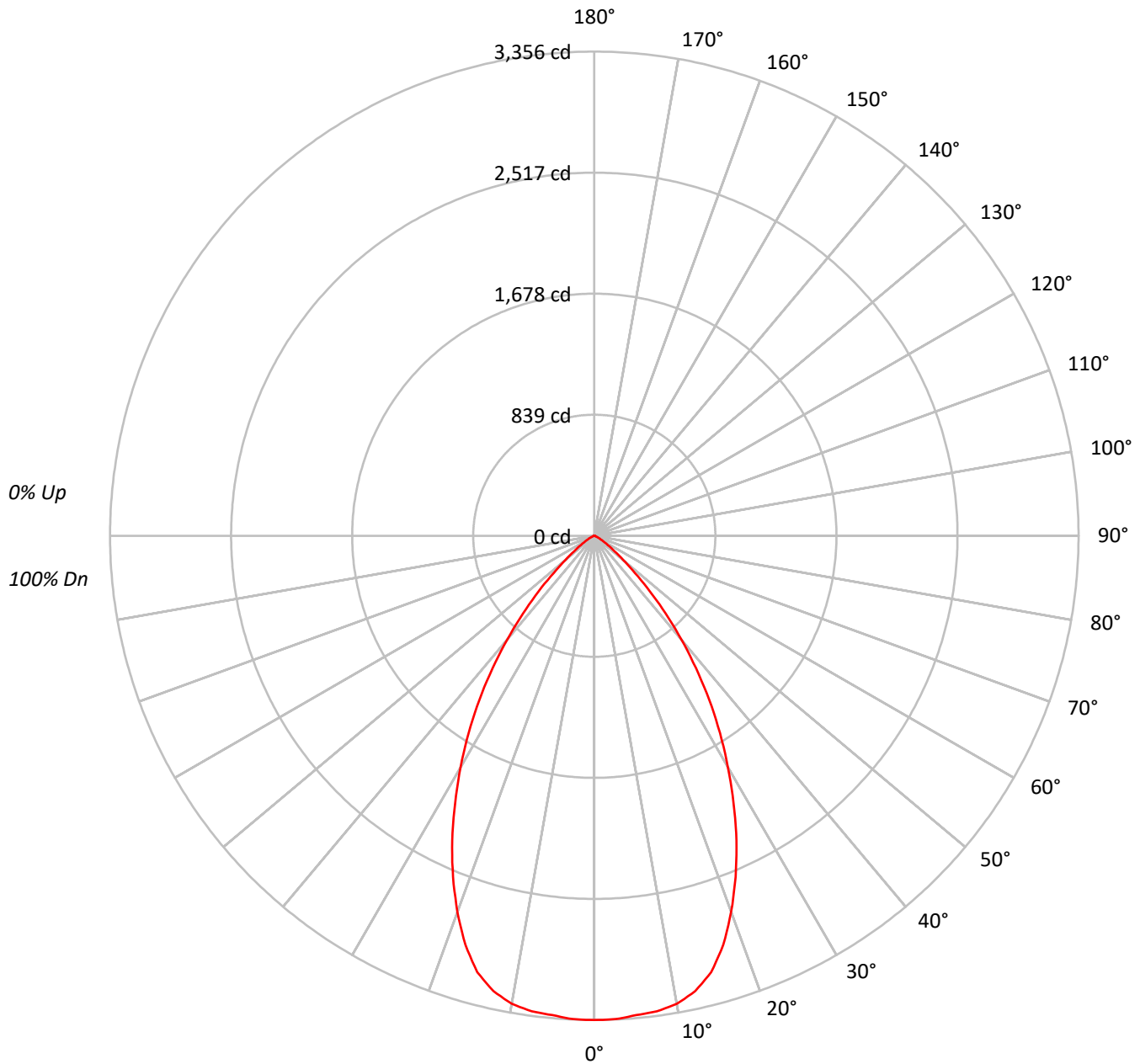


Downlight

TEST NUMBER: P781417

CATALOG NUMBER: LER4D40BD010-EC4DR6540509050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781417

CATALOG NUMBER: LER4D40BD010-EC4DR6540509050-4LBS1H

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°	196027
5°	195533
10°	195362
15°	189343
20°	172373
25°	150213
30°	124937
35°	98990
40°	71445
45°	45138
50°	23524
55°	12504
60°	6565
65°	3607
70°	1520
75°	1670
80°	1177
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45138 cd/sqm



TEST NUMBER: P781417

CATALOG NUMBER: LER4D40BD010-EC4DR6540509050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	8.6
10°-20°	869.2	23.5
20°-30°	1062.4	28.7
30°-40°	862.0	23.3
40°-50°	429.6	11.6
50°-60°	119.8	3.2
60°-70°	27.2	0.7
70°-80°	7.1	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°	2249.0	60.8
0°-40°	3111.1	84.2
0°-60°	3660.4	99.0
0°-90°	3696.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3696.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3356	
5°	3335	317
15°	3132	869
25°	2331	1062
35°	1388	862
45°	546	430
55°	123	120
65°	26	27
75°	7	7
85°	2	2
90°	0	



TEST NUMBER: P781417

CATALOG NUMBER: LER4D40BD010-EC4DR6540509050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3356.4
2.5°	3353.9
5°	3335.2
7.5°	3324.3
10°	3294.2
12.5°	3233.1
15°	3131.5
17.5°	2972.7
20°	2773.4
22.5°	2558.4
25°	2331.0
27.5°	2087.8
30°	1852.6
32.5°	1620.2
35°	1388.4
37.5°	1157.1
40°	937.1
42.5°	731.0
45°	546.5
47.5°	380.8
50°	258.9
52.5°	178.5
55°	122.8
57.5°	82.9
60°	56.2
62.5°	39.0
65°	26.1
67.5°	13.3
70°	8.9
72.5°	8.4
75°	7.4
77.5°	4.9
80°	3.5
82.5°	2.5
85°	1.5
87.5°	1.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)