

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: P781401

Luminaire Tested: LER4D40BD010-EC4DR6540509027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781401
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-EC4DR6540509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3368.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

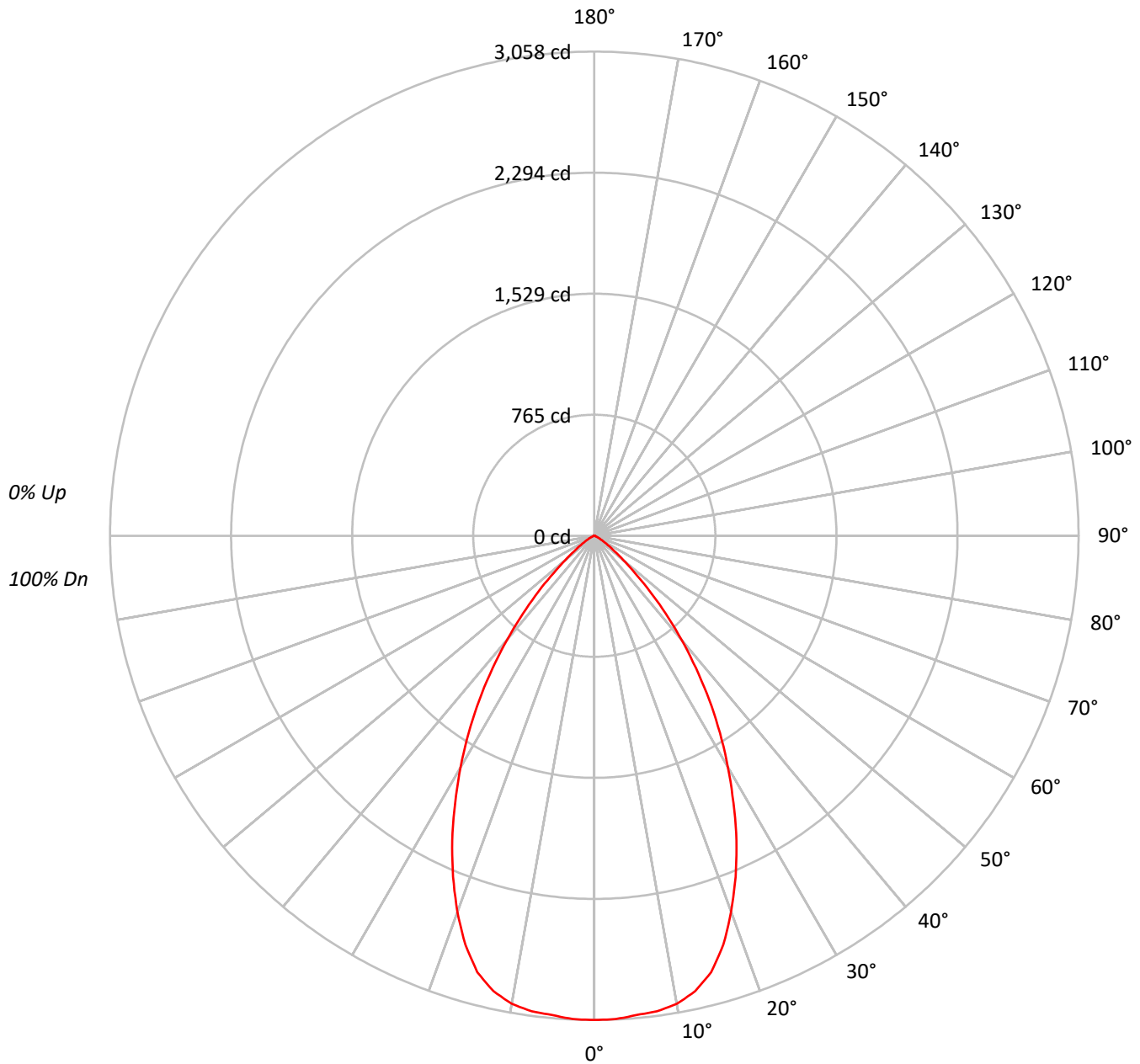


Downlight

TEST NUMBER: P781401

CATALOG NUMBER: LER4D40BD010-EC4DR6540509027-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781401

CATALOG NUMBER: LER4D40BD010-EC4DR6540509027-4LBS1H

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	178605
5°	178156
10°	178003
15°	172516
20°	157058
25°	136861
30°	113830
35°	90199
40°	65102
45°	41124
50°	21434
55°	11394
60°	5981
65°	3289
70°	1383
75°	1512
80°	1043
85°	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41124 cd/sqm



TEST NUMBER: P781401

CATALOG NUMBER: LER4D40BD010-EC4DR6540509027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	8.6
10°-20°	791.9	23.5
20°-30°	968.0	28.7
30°-40°	785.5	23.3
40°-50°	391.4	11.6
50°-60°	109.2	3.2
60°-70°	24.8	0.7
70°-80°	6.4	0.2
80°-90°	1.6	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°	2049.2	60.8
0°-40°	2834.6	84.2
0°-60°	3335.2	99.0
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3058	
5°	3039	289
15°	2853	792
25°	2124	968
35°	1265	785
45°	498	391
55°	112	109
65°	24	25
75°	7	6
85°	1	2
90°	0	



TEST NUMBER: P781401

CATALOG NUMBER: LER4D40BD010-EC4DR6540509027-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3058.1
2.5°	3055.9
5°	3038.8
7.5°	3028.9
10°	3001.5
12.5°	2945.8
15°	2853.2
17.5°	2708.5
20°	2527.0
22.5°	2331.0
25°	2123.8
27.5°	1902.3
30°	1687.9
32.5°	1476.3
35°	1265.1
37.5°	1054.3
40°	853.9
42.5°	666.0
45°	497.9
47.5°	346.9
50°	235.9
52.5°	162.7
55°	111.9
57.5°	75.5
60°	51.2
62.5°	35.5
65°	23.8
67.5°	12.1
70°	8.1
72.5°	7.6
75°	6.7
77.5°	4.5
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)