

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: P781404

Luminaire Tested: LER4D40BD010-EC4DR6540509030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781404
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-EC4DR6540509030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3221.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

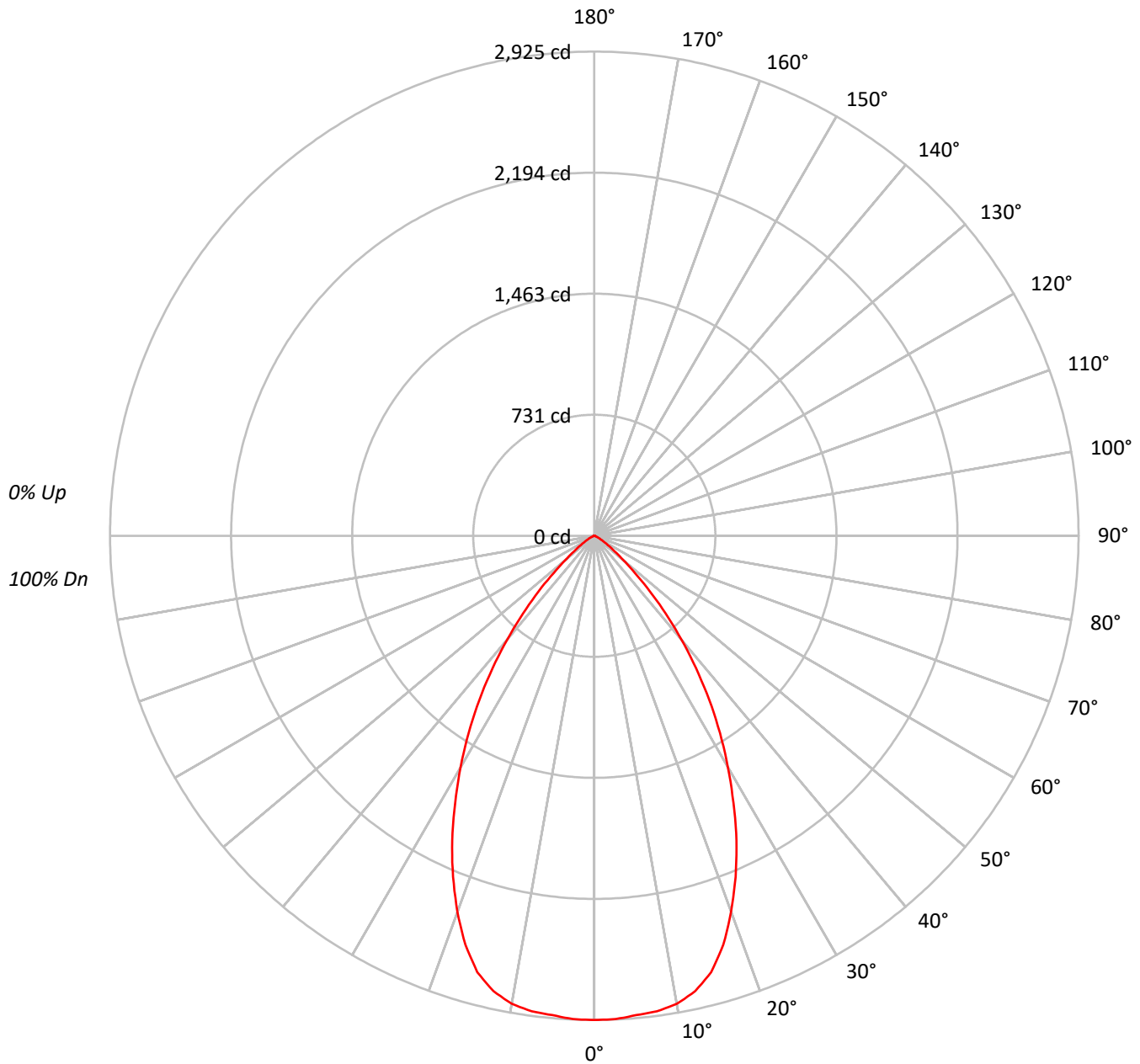


Downlight

TEST NUMBER: P781404

CATALOG NUMBER: LER4D40BD010-EC4DR6540509030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781404

CATALOG NUMBER: LER4D40BD010-EC4DR6540509030-4LBS1B

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°	170843
5°	170411
10°	170264
15°	165019
20°	150228
25°	130913
30°	108880
35°	86271
40°	62266
45°	39340
50°	20507
55°	10895
60°	5724
65°	3151
70°	1315
75°	1444
80°	1009
85°	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39340 cd/sqm



TEST NUMBER: P781404

CATALOG NUMBER: LER4D40BD010-EC4DR6540509030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	8.6
10°-20°	757.5	23.5
20°-30°	925.9	28.7
30°-40°	751.3	23.3
40°-50°	374.4	11.6
50°-60°	104.4	3.2
60°-70°	23.7	0.7
70°-80°	6.2	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°	1960.1	60.8
0°-40°	2711.4	84.2
0°-60°	3190.1	99.0
0°-90°	3221.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3221.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2925	
5°	2907	277
15°	2729	758
25°	2032	926
35°	1210	751
45°	476	374
55°	107	104
65°	23	24
75°	6	6
85°	1	2
90°	0	



TEST NUMBER: P781404

CATALOG NUMBER: LER4D40BD010-EC4DR6540509030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	2925.2
2.5°	2923.0
5°	2906.7
7.5°	2897.2
10°	2871.0
12.5°	2817.7
15°	2729.2
17.5°	2590.7
20°	2417.1
22.5°	2229.7
25°	2031.5
27.5°	1819.6
30°	1614.5
32.5°	1412.1
35°	1210.0
37.5°	1008.4
40°	816.7
42.5°	637.0
45°	476.3
47.5°	331.8
50°	225.7
52.5°	155.6
55°	107.0
57.5°	72.2
60°	49.0
62.5°	34.0
65°	22.8
67.5°	11.6
70°	7.7
72.5°	7.3
75°	6.4
77.5°	4.3
80°	3.0
82.5°	2.1
85°	1.3
87.5°	0.9
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)