

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: P781229

Luminaire Tested: LER4D40BD010-EC4DR3040509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR3040509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): 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

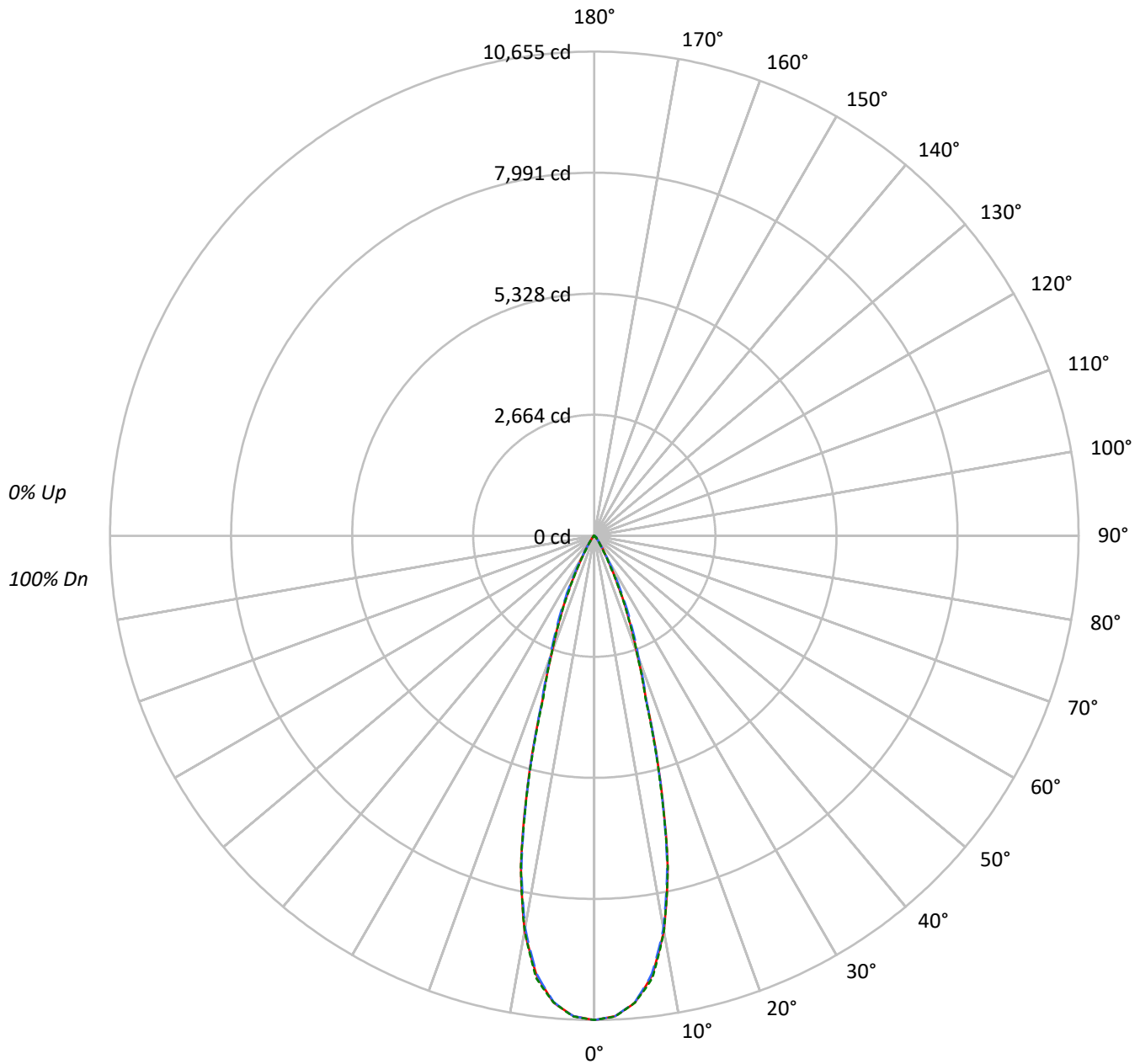


Downlight

TEST NUMBER: P781229

CATALOG NUMBER: LER4D40BD010-EC4DR3040509024-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P781229

CATALOG NUMBER: LER4D40BD010-EC4DR3040509024-4LBS1H

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	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	815555	815555	815555
5°	792138	791216	792185
10°	686118	681276	685955
15°	447655	445254	443011
20°	222602	230952	222301
25°	112133	126448	109835
30°	44891	48921	39119
35°	20819	19941	16717
40°	8993	9982	8463
45°	6343	7870	6397
50°	2179	5728	2310
55°	1254	2375	1321
60°	888	1041	888
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7870 cd/sqm

TEST NUMBER: P781229

CATALOG NUMBER: LER4D40BD010-EC4DR3040509024-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.9	28.3
10°-20°	1508.9	45.5
20°-30°	652.1	19.7
30°-40°	148.6	4.5
40°-50°	51.0	1.5
50°-60°	12.5	0.4
60°-70°	3.2	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	3097.9	93.5
0°-40°	3246.5	98.0
0°-60°	3310.0	99.9
0°-90°	3313.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10655	10655	10655	10655	10655	
5°	10310	10300	10298	10319	10310	938
15°	5649	5581	5619	5600	5590	1513
25°	1328	1378	1497	1343	1300	636
35°	223	228	213	212	179	151
45°	59	73	73	73	59	42
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P781229

CATALOG NUMBER: LER4D40BD010-EC4DR3040509024-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10654.8	10654.8	10654.8	10654.8	10654.8
2.5°	10584.2	10576.9	10581.0	10586.3	10588.4
5°	10309.5	10299.6	10297.5	10319.0	10310.1
7.5°	9755.6	9741.4	9720.0	9768.6	9814.2
10°	8827.6	8811.9	8765.3	8788.3	8825.5
12.5°	7457.5	7406.8	7405.7	7479.0	7469.0
15°	5649.1	5581.1	5618.8	5600.5	5590.5
17.5°	3798.9	3772.7	3822.9	3807.8	3742.4
20°	2732.8	2739.6	2835.3	2787.2	2729.1
22.5°	1994.1	2018.7	2132.2	2008.2	1962.7
25°	1327.7	1377.9	1497.2	1342.8	1300.5
27.5°	816.6	839.6	960.4	806.1	783.1
30°	507.9	496.4	553.5	475.0	442.6
32.5°	333.2	318.6	336.9	302.4	276.2
35°	222.8	227.6	213.4	211.9	178.9
37.5°	139.1	160.1	141.2	150.7	115.1
40°	90.0	116.1	99.9	110.4	84.7
42.5°	73.8	89.5	82.1	87.4	75.3
45°	58.6	72.7	72.7	72.7	59.1
47.5°	32.4	48.6	62.3	49.7	34.5
50°	18.3	24.6	48.1	25.6	19.4
52.5°	12.6	14.1	33.0	14.6	13.1
55°	9.4	9.9	17.8	10.5	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.8	5.8	6.8	6.3	5.8
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)