

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: P781285

Luminaire Tested: LER4D40BD010-EC4DR4040509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR4040509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4133.9 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' 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

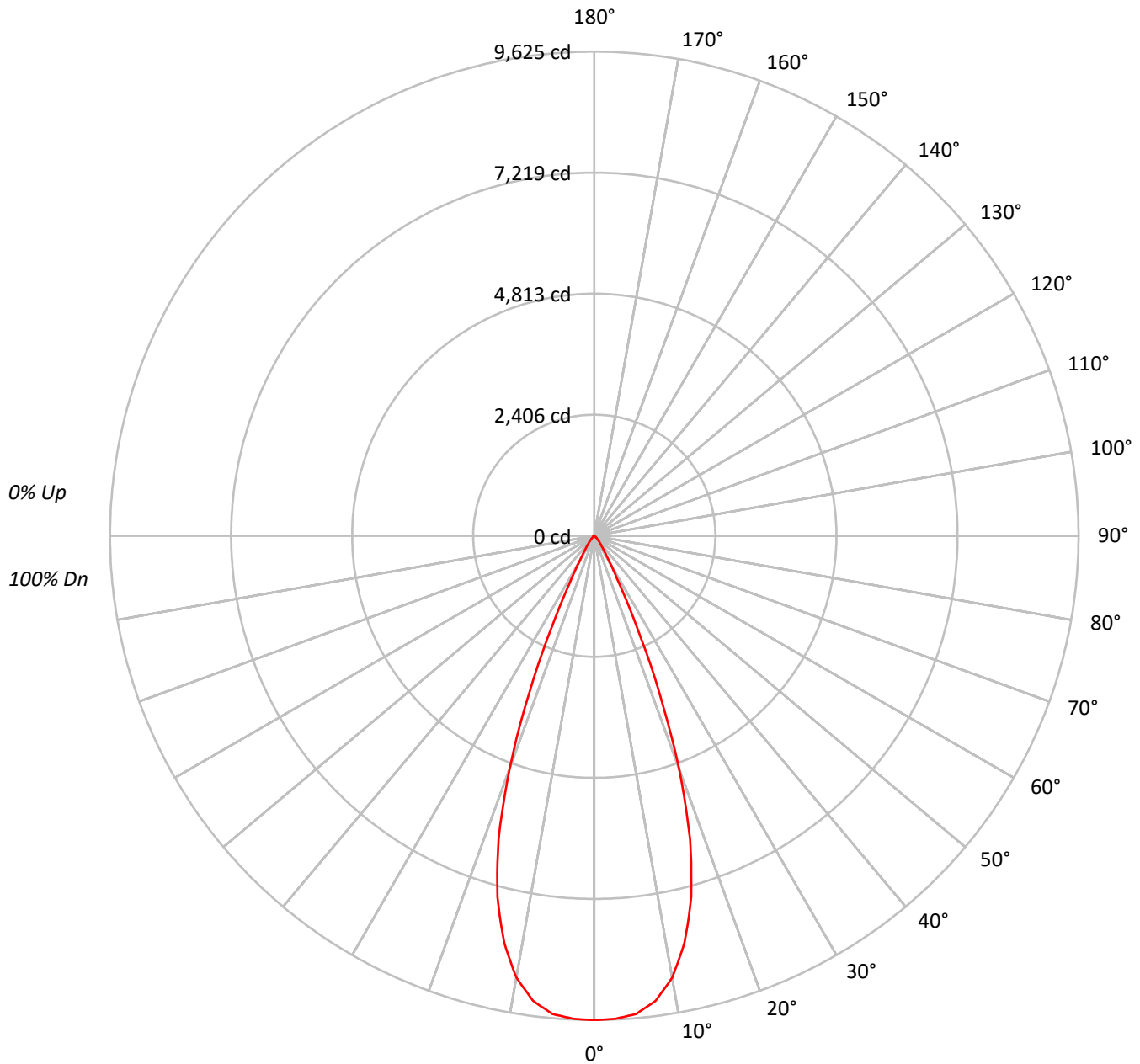


Downlight

TEST NUMBER: P781285

CATALOG NUMBER: LER4D40BD010-EC4DR4040509030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781285

CATALOG NUMBER: LER4D40BD010-EC4DR4040509030-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	97
2	110	106	103	100	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	104	100	96	93		97	94	92		95	93	90		93	91	89
4	102	97	92	89	101	95	91	88		93	90	87		92	89	86		90	87	85
5	99	92	88	84	97	91	87	84		90	86	83		88	85	83		87	84	82
6	95	88	84	80	94	88	83	80		86	82	80		85	82	79		84	81	79
7	92	85	80	77	91	84	80	77		83	79	76		82	79	76		81	78	76
8	89	82	77	74	88	81	77	74		80	76	73		79	76	73		78	75	73
9	86	79	74	71	85	78	74	71		77	73	71		76	73	70		76	72	70
10	83	76	71	68	82	75	71	68		75	71	68		74	70	68		73	70	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1051613
5°	1046505
10°	989175
15°	840931
20°	573155
25°	239147
30°	75193
35°	34946
40°	19326
45°	8869
50°	4300
55°	2362
60°	1224
65°	440
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8869 cd/sqm



TEST NUMBER: P781285

CATALOG NUMBER: LER4D40BD010-EC4DR4040509030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.9	21.6
10°-20°	1996.0	48.3
20°-30°	999.1	24.2
30°-40°	183.1	4.4
40°-50°	50.5	1.2
50°-60°	11.9	0.3
60°-70°	2.3	0.1
70°-80°	0.1	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°	3886.0	94.0
0°-40°	4069.2	98.4
0°-60°	4131.6	99.9
0°-90°	4133.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9625	
5°	9542	891
15°	7434	1996
25°	1984	999
35°	262	183
45°	57	51
55°	12	12
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781285

CATALOG NUMBER: LER4D40BD010-EC4DR4040509030-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	9624.8
2.5°	9610.8
5°	9541.6
7.5°	9321.2
10°	8915.8
12.5°	8283.8
15°	7434.3
17.5°	6329.4
20°	4929.4
22.5°	3360.7
25°	1983.7
27.5°	1048.6
30°	596.0
32.5°	385.2
35°	262.0
37.5°	187.2
40°	135.5
42.5°	92.8
45°	57.4
47.5°	36.5
50°	25.3
52.5°	18.0
55°	12.4
57.5°	7.9
60°	5.6
62.5°	3.4
65°	1.7
67.5°	1.1
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)