

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: P781305

Luminaire Tested: LER4D40BD010-EC4DR4540509027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D40BD010-EC4DR4540509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3936.8 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' 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

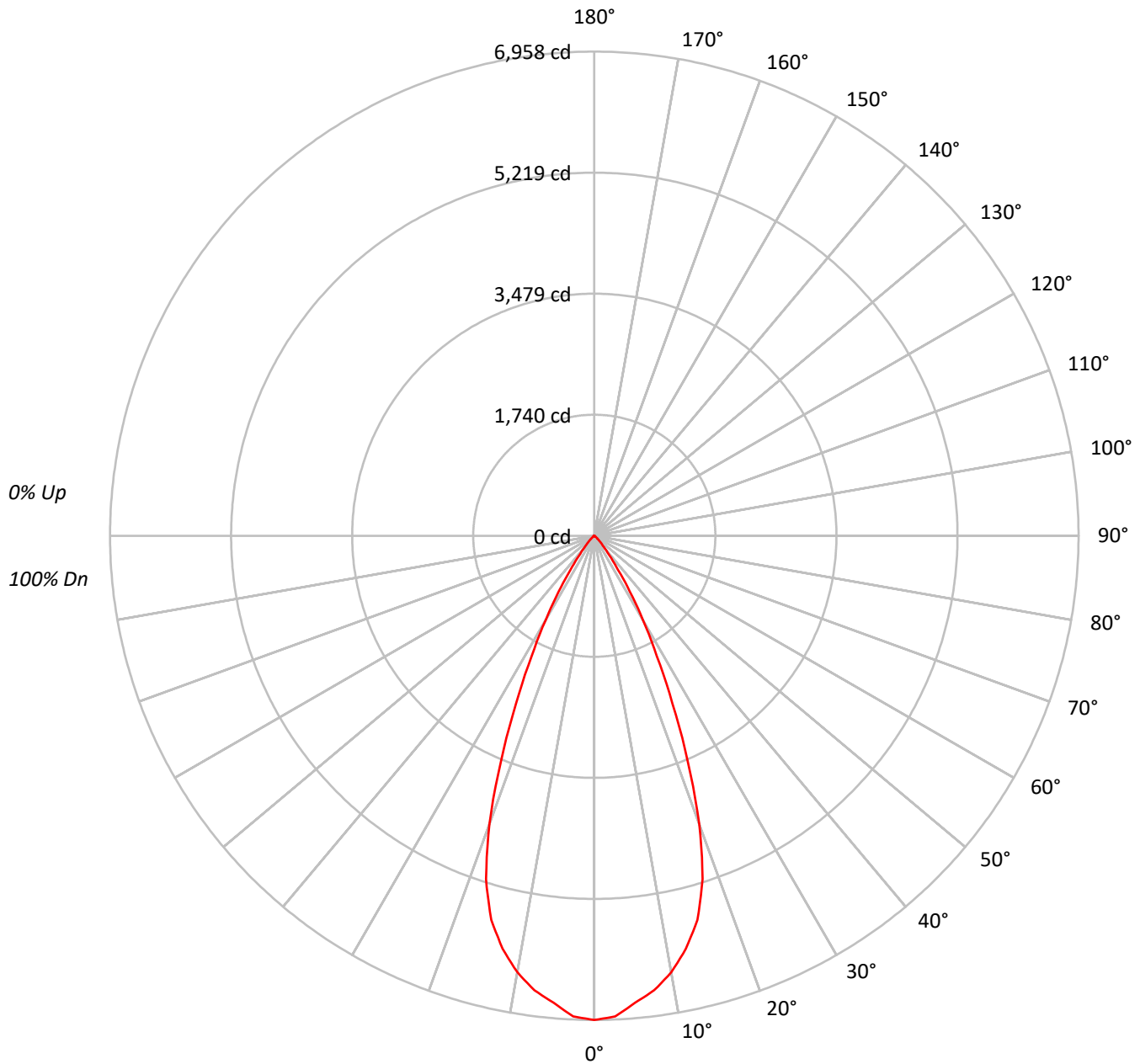


Downlight

TEST NUMBER: P781305

CATALOG NUMBER: LER4D40BD010-EC4DR4540509027-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781305

CATALOG NUMBER: LER4D40BD010-EC4DR4540509027-4LBS1H

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	97	97	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	91	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	87	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	82	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	78	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	71	71	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	67	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	64	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	61	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	760280
5°	738638
10°	706672
15°	646758
20°	513101
25°	320341
30°	176566
35°	79283
40°	31222
45°	14710
50°	6969
55°	3657
60°	1792
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14710 cd/sqm



TEST NUMBER: P781305

CATALOG NUMBER: LER4D40BD010-EC4DR4540509027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	16.1
10°-20°	1557.3	39.6
20°-30°	1233.3	31.3
30°-40°	410.7	10.4
40°-50°	81.5	2.1
50°-60°	18.5	0.5
60°-70°	2.6	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°	3423.4	87.0
0°-40°	3834.1	97.4
0°-60°	3934.1	99.9
0°-90°	3936.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6958	
5°	6735	633
15°	5718	1557
25°	2657	1233
35°	594	411
45°	95	81
55°	19	19
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781305

CATALOG NUMBER: LER4D40BD010-EC4DR4540509027-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	6958.4
2.5°	6913.0
5°	6734.6
7.5°	6587.3
10°	6369.5
12.5°	6079.5
15°	5717.7
17.5°	5173.7
20°	4412.9
22.5°	3506.6
25°	2657.2
27.5°	1945.7
30°	1399.5
32.5°	951.8
35°	594.4
37.5°	352.5
40°	218.9
42.5°	143.9
45°	95.2
47.5°	61.3
50°	41.0
52.5°	27.4
55°	19.2
57.5°	12.6
60°	8.2
62.5°	4.4
65°	1.6
67.5°	0.5
70°	0.5
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)