

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: P781074

Luminaire Tested: LER4D35BD010-EC4DR4520359035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781074
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: LER4D35BD010-EC4DR4520359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.6 lumens
Efficiency: N/A
Efficacy: 118.7 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): 30.8
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

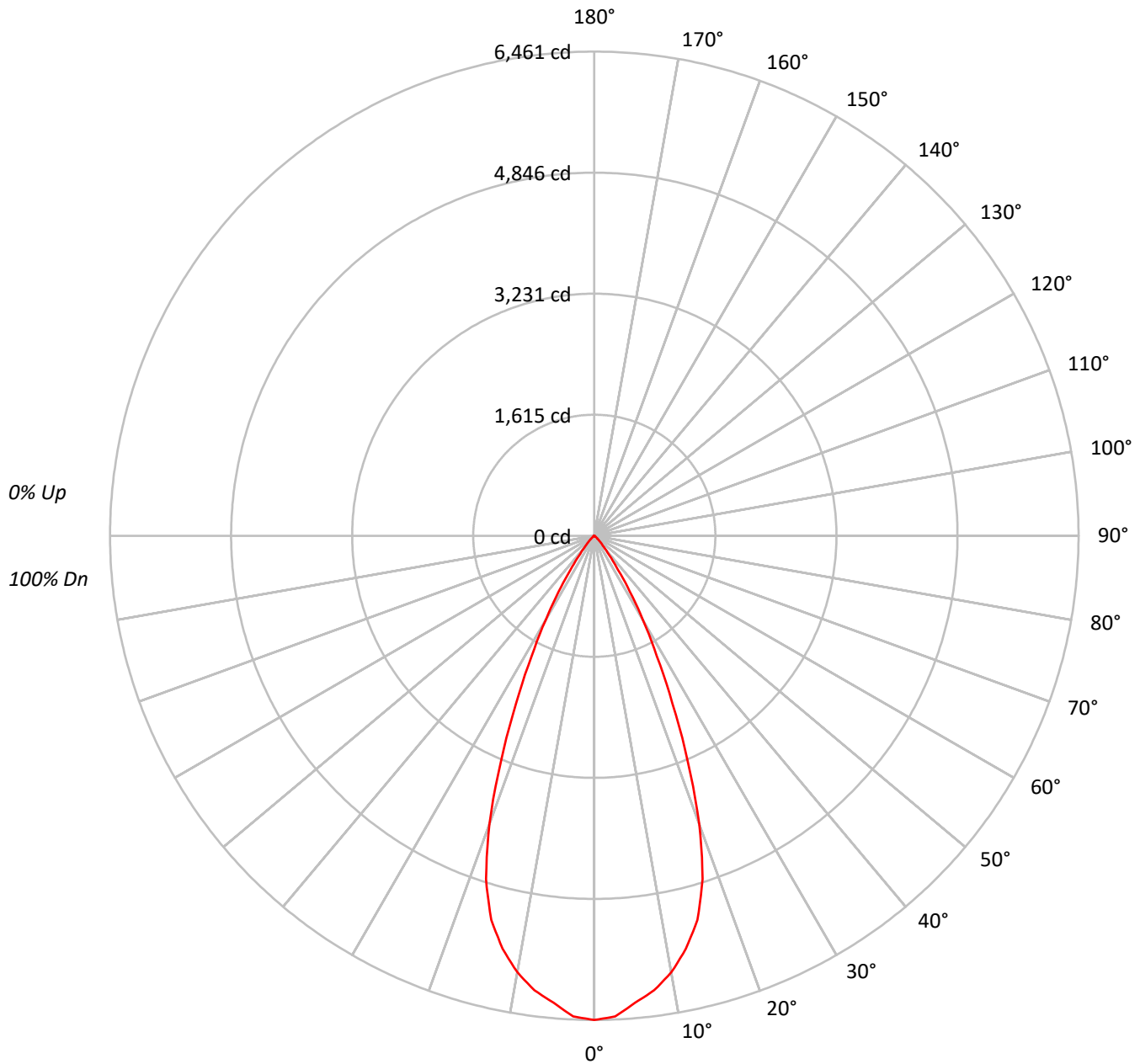


Downlight

TEST NUMBER: P781074

CATALOG NUMBER: LER4D35BD010-EC4DR4520359035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781074

CATALOG NUMBER: LER4D35BD010-EC4DR4520359035-4LBS1LI

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°	705977
5°	685883
10°	656203
15°	600562
20°	476451
25°	297460
30°	163949
35°	73614
40°	28997
45°	13659
50°	6476
55°	3391
60°	1661
65°	388
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13659 cd/sqm



TEST NUMBER: P781074

CATALOG NUMBER: LER4D35BD010-EC4DR4520359035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.6	16.1
10°-20°	1446.1	39.6
20°-30°	1145.2	31.3
30°-40°	381.4	10.4
40°-50°	75.7	2.1
50°-60°	17.2	0.5
60°-70°	2.5	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°	3178.9	87.0
0°-40°	3560.2	97.4
0°-60°	3653.1	99.9
0°-90°	3655.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6461	
5°	6254	588
15°	5309	1446
25°	2467	1145
35°	552	381
45°	88	76
55°	18	17
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781074

CATALOG NUMBER: LER4D35BD010-EC4DR4520359035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6461.4
2.5°	6419.2
5°	6253.6
7.5°	6116.8
10°	5914.6
12.5°	5645.2
15°	5309.3
17.5°	4804.1
20°	4097.7
22.5°	3256.1
25°	2467.4
27.5°	1806.7
30°	1299.5
32.5°	883.8
35°	551.9
37.5°	327.3
40°	203.3
42.5°	133.7
45°	88.4
47.5°	56.9
50°	38.1
52.5°	25.4
55°	17.8
57.5°	11.7
60°	7.6
62.5°	4.1
65°	1.5
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)