

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: P781046

Luminaire Tested: LER4D35BD010-EC4DR4020359030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781046
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: LER4D35BD010-EC4DR4020359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 3687.2 lumens
Efficiency: N/A
Efficacy: 119.7 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): 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

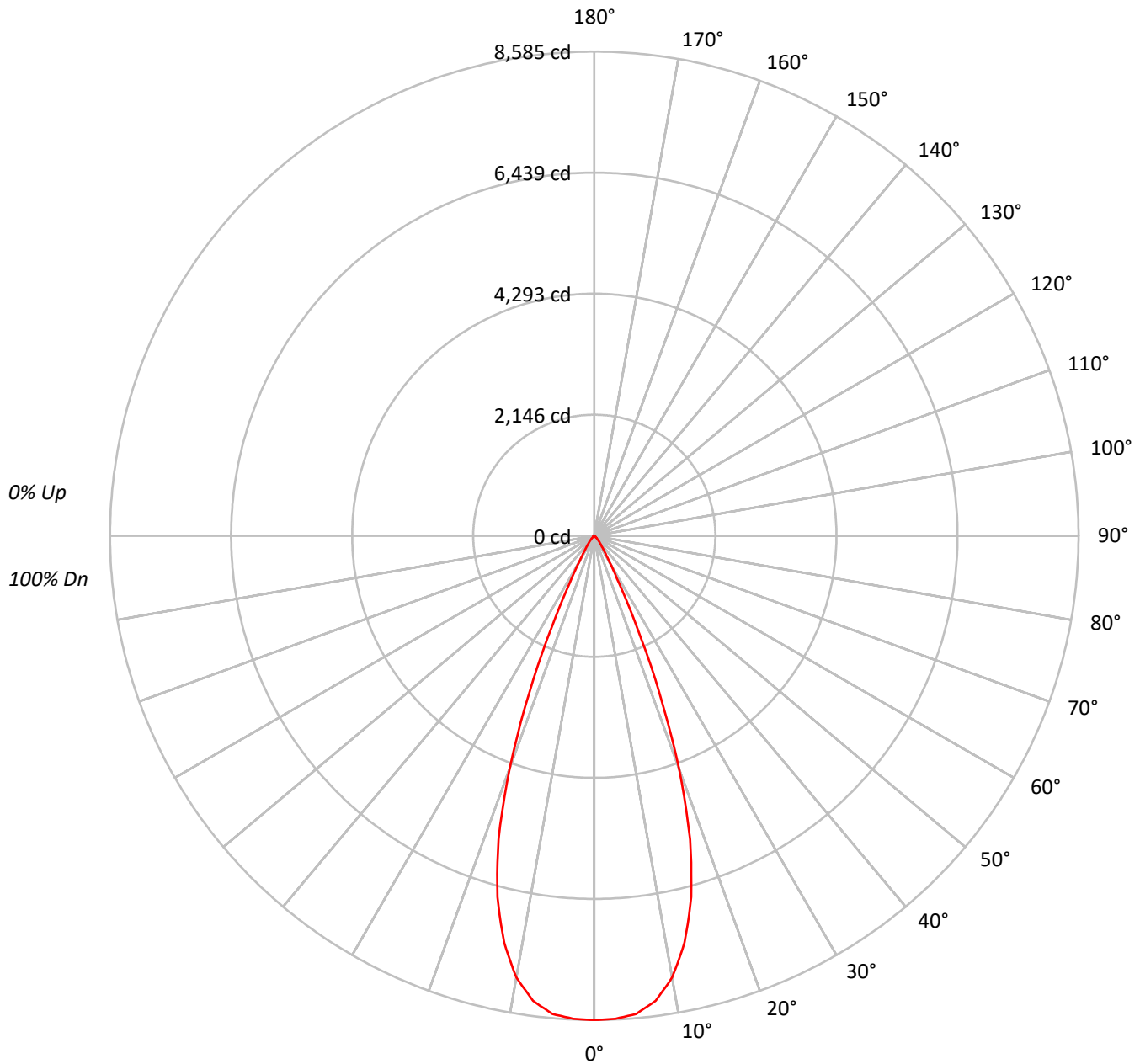


Downlight

TEST NUMBER: P781046

CATALOG NUMBER: LER4D35BD010-EC4DR4020359030-4LBS1LI

Luminous Intensity Polar Plot





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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	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°	937982
5°	933427
10°	882289
15°	750055
20°	511217
25°	213300
30°	67068
35°	31172
40°	17244
45°	7911
50°	3842
55°	2095
60°	1093
65°	388
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.7	21.6
10°-20°	1780.3	48.3
20°-30°	891.1	24.2
30°-40°	163.4	4.4
40°-50°	45.1	1.2
50°-60°	10.6	0.3
60°-70°	2.0	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°	3466.1	94.0
0°-40°	3629.5	98.4
0°-60°	3685.1	99.9
0°-90°	3687.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3687.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8585	
5°	8511	795
15°	6631	1780
25°	1769	891
35°	234	163
45°	51	45
55°	11	11
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8584.8
2.5°	8572.3
5°	8510.6
7.5°	8314.0
10°	7952.4
12.5°	7388.7
15°	6630.9
17.5°	5645.5
20°	4396.7
22.5°	2997.5
25°	1769.3
27.5°	935.3
30°	531.6
32.5°	343.5
35°	233.7
37.5°	167.0
40°	120.9
42.5°	82.7
45°	51.2
47.5°	32.6
50°	22.6
52.5°	16.0
55°	11.0
57.5°	7.0
60°	5.0
62.5°	3.0
65°	1.5
67.5°	1.0
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



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— 0°-180°







(END OF REPORT)