

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: P781044

Luminaire Tested: LER4D35BD010-EC4DR4020359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781044
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-EC4DR4020359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.9 lumens
Efficiency: N/A
Efficacy: 107.1 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

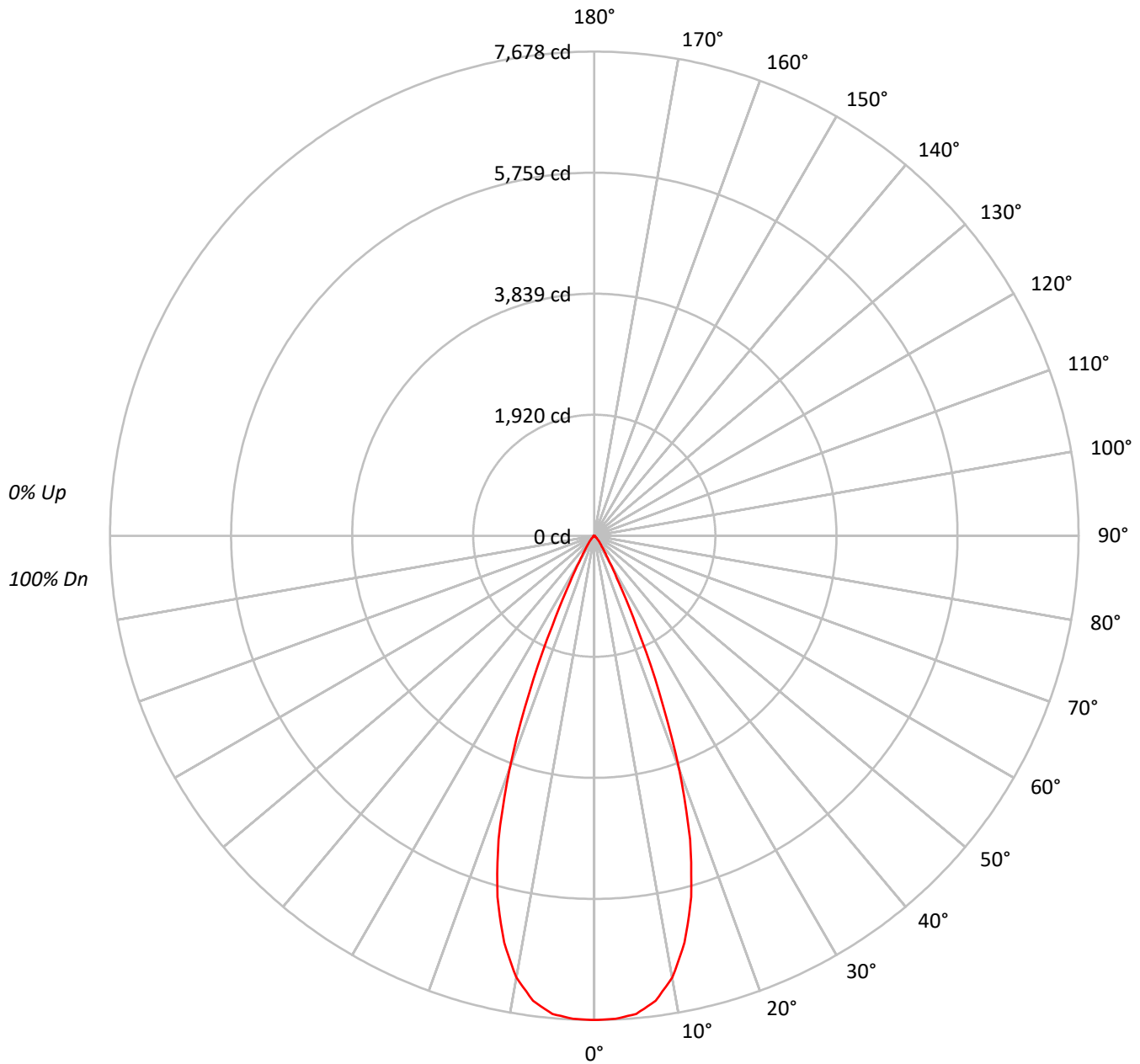


Downlight

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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	112	110	108	112	110	108	107		106	105	103			103	101	100			99
2	110	106	103	100	108	105	102	99		102	99	97			99	97	95			96
3	106	101	97	94	104	100	96	93		97	94	92			95	93	90			93
4	102	97	92	89	101	95	91	88		93	90	87			92	89	86			90
5	99	92	88	84	97	91	87	84		90	86	83			88	85	83			87
6	95	88	84	80	94	88	83	80		86	82	80			85	82	79			84
7	92	85	80	77	91	84	80	77		83	79	76			82	79	76			81
8	89	82	77	74	88	81	77	74		80	76	73			79	76	73			78
9	86	79	74	71	85	78	74	71		77	73	71			76	73	70			76
10	83	76	71	68	82	75	71	68		75	71	68			74	70	68			73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	838937
5°	834859
10°	789116
15°	670851
20°	457231
25°	190780
30°	59991
35°	27877
40°	15418
45°	7077
50°	3434
55°	1886
60°	983
65°	336
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7077 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.8	21.6
10°-20°	1592.3	48.3
20°-30°	797.0	24.2
30°-40°	146.1	4.4
40°-50°	40.3	1.2
50°-60°	9.5	0.3
60°-70°	1.8	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°	3100.1	94.0
0°-40°	3246.2	98.4
0°-60°	3296.0	99.9
0°-90°	3297.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7678	
5°	7612	711
15°	5931	1592
25°	1582	797
35°	209	146
45°	46	40
55°	10	9
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7678.3
2.5°	7667.0
5°	7611.9
7.5°	7436.0
10°	7112.6
12.5°	6608.5
15°	5930.7
17.5°	5049.3
20°	3932.4
22.5°	2681.0
25°	1582.5
27.5°	836.5
30°	475.5
32.5°	307.3
35°	209.0
37.5°	149.4
40°	108.1
42.5°	74.0
45°	45.8
47.5°	29.2
50°	20.2
52.5°	14.4
55°	9.9
57.5°	6.3
60°	4.5
62.5°	2.7
65°	1.3
67.5°	0.9
70°	0.4
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)