

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: P752407

Luminaire Tested: LD4D70BD010-EU4DR4070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752407
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: LD4D70BD010-EU4DR4070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7073.6 lumens
Efficiency: N/A
Efficacy: 106.2 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): 66.6
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

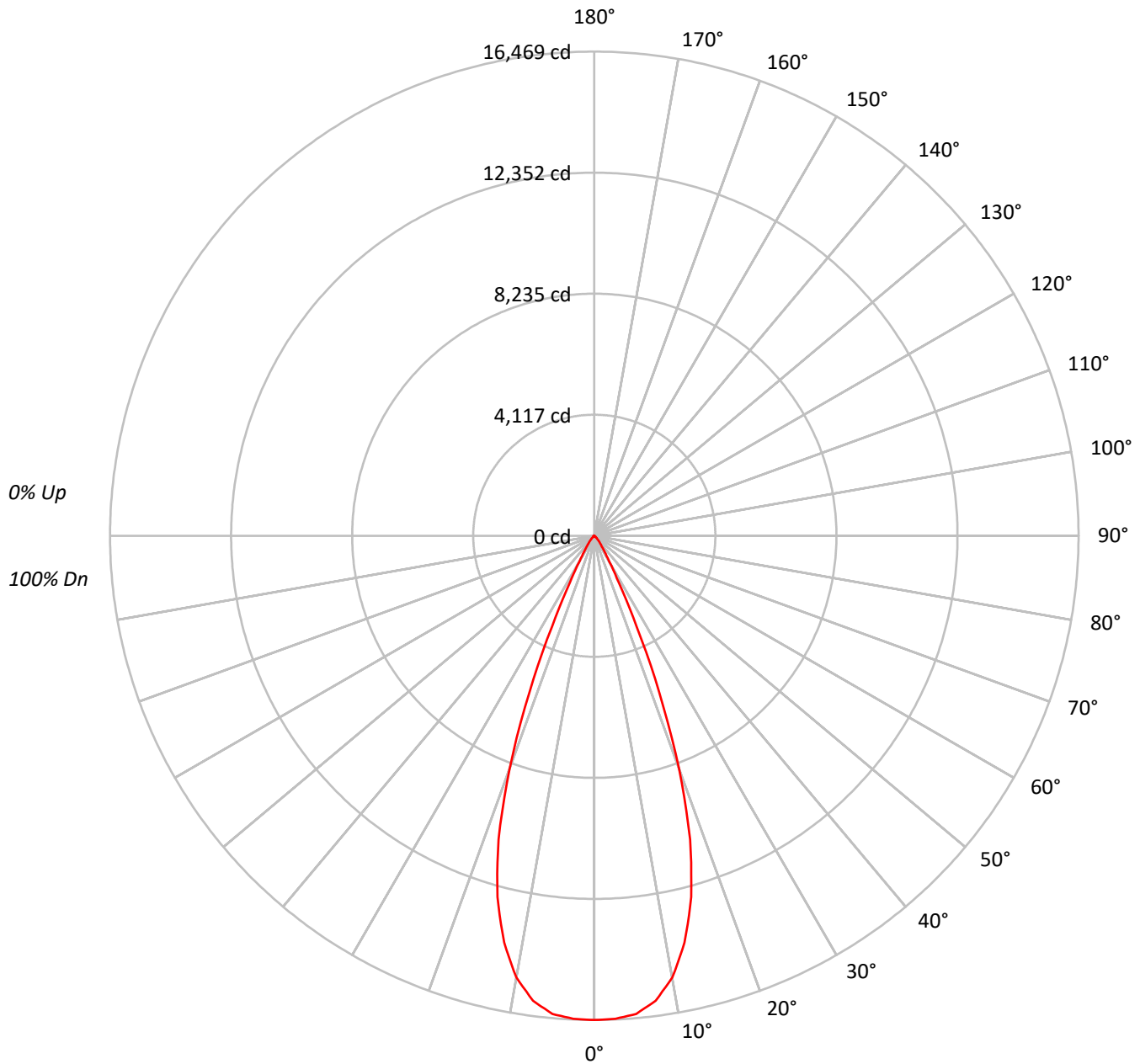


Downlight

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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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	115	112	110	108		112	110	108	107		106	105	103			103	101	100			96
2	110	106	103	100		108	105	102	99		102	99	97			99	97	95			92
3	106	101	97	94		104	100	96	93		97	94	92			95	93	90			88
4	102	97	92	89		101	95	91	88		93	90	87			92	89	86			84
5	99	92	88	84		97	91	87	84		90	86	83			88	85	83			81
6	95	88	84	80		94	88	83	80		86	82	80			85	82	79			77
7	92	85	80	77		91	84	80	77		83	79	76			82	79	76			74
8	89	82	77	74		88	81	77	74		80	76	73			79	76	73			72
9	86	79	74	71		85	78	74	71		77	73	71			76	73	70			69
10	83	76	71	68		82	75	71	68		75	71	68			74	70	68			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1799437
5°	1790693
10°	1692596
15°	1438925
20°	980727
25°	409203
30°	128661
35°	59795
40°	33076
45°	15158
50°	7360
55°	4038
60°	2098
65°	750
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15158 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1524.5	21.6
10°-20°	3415.3	48.3
20°-30°	1709.6	24.2
30°-40°	313.4	4.4
40°-50°	86.4	1.2
50°-60°	20.3	0.3
60°-70°	3.9	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°	6649.4	94.0
0°-40°	6962.8	98.4
0°-60°	7069.6	99.9
0°-90°	7073.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7073.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16469	
5°	16327	###
15°	12721	3415
25°	3394	1710
35°	448	313
45°	98	86
55°	21	20
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	16469.2
2.5°	16445.2
5°	16326.8
7.5°	15949.7
10°	15256.0
12.5°	14174.6
15°	12720.9
17.5°	10830.4
20°	8434.7
22.5°	5750.5
25°	3394.3
27.5°	1794.3
30°	1019.8
32.5°	659.0
35°	448.3
37.5°	320.4
40°	231.9
42.5°	158.7
45°	98.1
47.5°	62.5
50°	43.3
52.5°	30.8
55°	21.2
57.5°	13.5
60°	9.6
62.5°	5.8
65°	2.9
67.5°	1.9
70°	1.0
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)