

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: P752448

Luminaire Tested: LD4D70BD010-EU4DR4570959024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752448
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: LD4D70BD010-EU4DR4570959024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6579.5 lumens
Efficiency: N/A
Efficacy: 98.8 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): 66.6
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

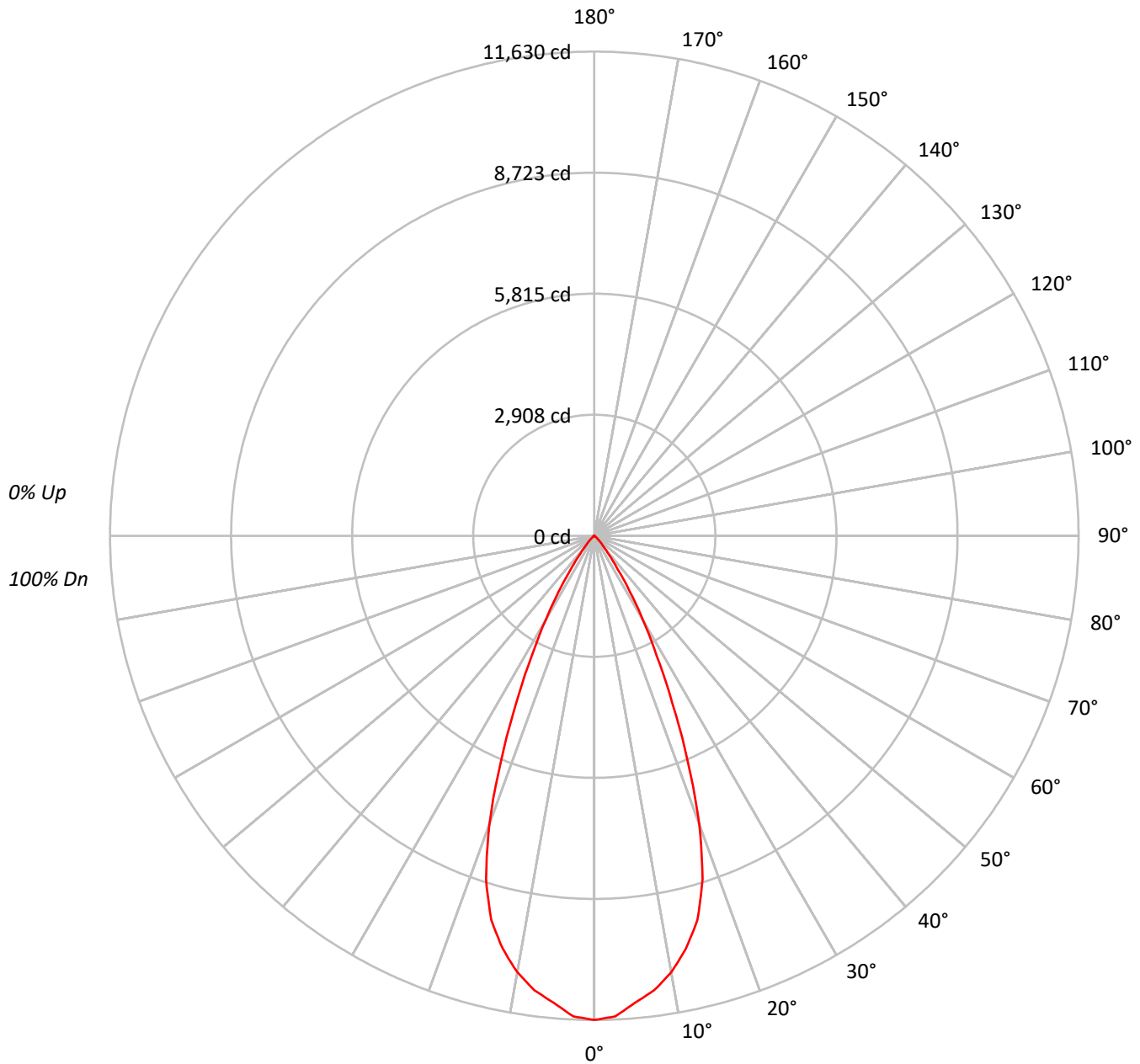


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1270648
5°	1234471
10°	1181056
15°	1080916
20°	857536
25°	535377
30°	295084
35°	132502
40°	52188
45°	24599
50°	11661
55°	6096
60°	2994
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1057.6	16.1
10°-20°	2602.8	39.6
20°-30°	2061.1	31.3
30°-40°	686.4	10.4
40°-50°	136.2	2.1
50°-60°	30.9	0.5
60°-70°	4.4	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°	5721.5	87.0
0°-40°	6407.8	97.4
0°-60°	6575.0	99.9
0°-90°	6579.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6579.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11630	
5°	11255	###
15°	9556	2603
25°	4441	2061
35°	993	686
45°	159	136
55°	32	31
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11629.5
2.5°	11553.6
5°	11255.4
7.5°	11009.3
10°	10645.3
12.5°	10160.5
15°	9555.9
17.5°	8646.7
20°	7375.2
22.5°	5860.5
25°	4440.9
27.5°	3251.8
30°	2338.9
32.5°	1590.7
35°	993.4
37.5°	589.1
40°	365.9
42.5°	240.6
45°	159.2
47.5°	102.4
50°	68.6
52.5°	45.7
55°	32.0
57.5°	21.0
60°	13.7
62.5°	7.3
65°	2.7
67.5°	0.9
70°	0.9
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)