

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: P752799

Luminaire Tested: LD4D70BD010-EU4DR6570959035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6638.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

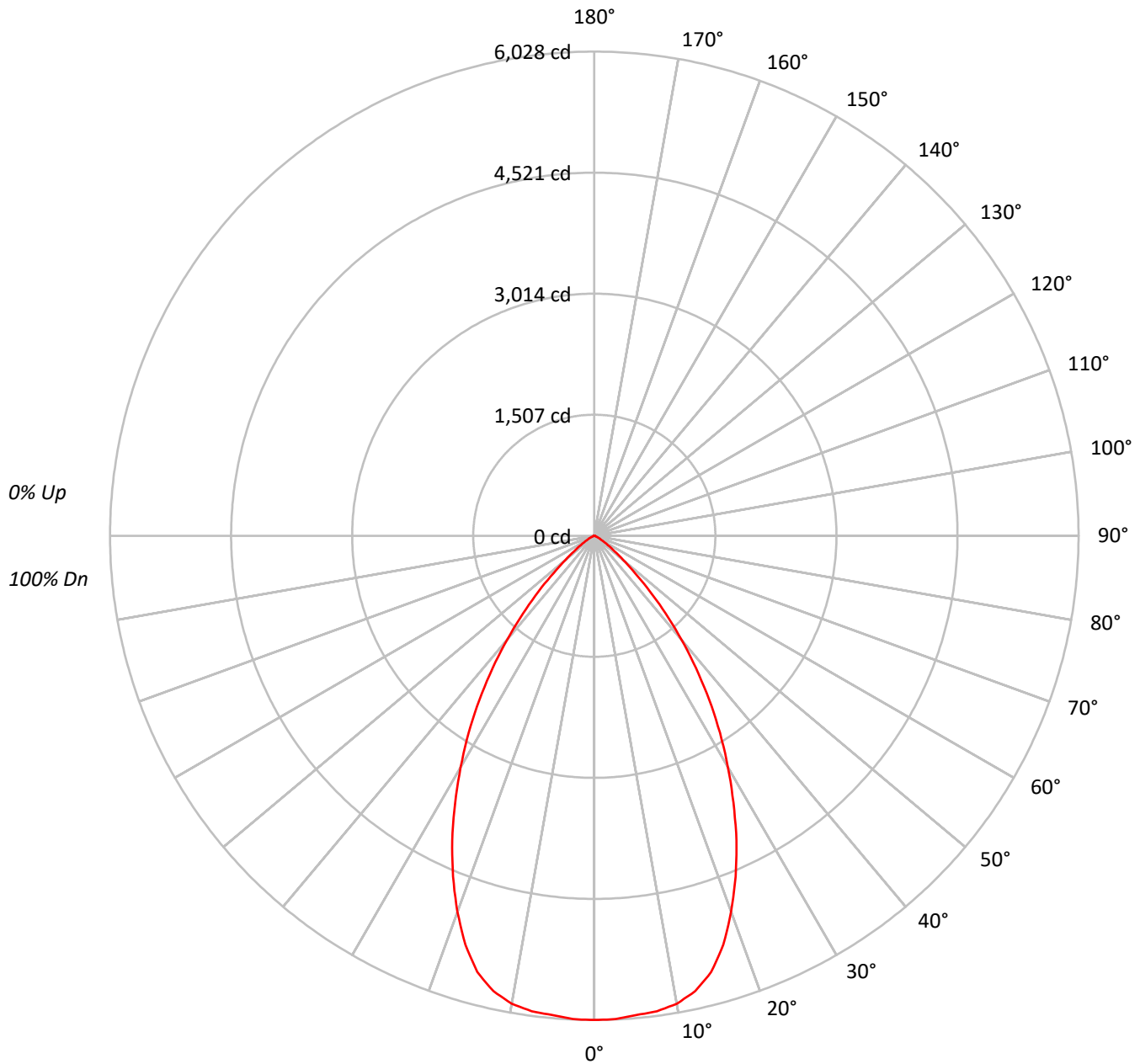


Downlight

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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					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	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78		
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	352029
5°	351140
10°	350842
15°	340026
20°	309549
25°	269752
30°	224356
35°	177774
40°	128306
45°	81059
50°	42250
55°	22452
60°	11798
65°	6481
70°	2715
75°	3001
80°	2085
85°	1809

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.0	8.6
10°-20°	1560.9	23.5
20°-30°	1907.9	28.7
30°-40°	1548.1	23.3
40°-50°	771.4	11.6
50°-60°	215.1	3.2
60°-70°	48.9	0.7
70°-80°	12.7	0.2
80°-90°	3.3	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°	4038.8	60.8
0°-40°	5586.9	84.2
0°-60°	6573.5	99.0
0°-90°	6638.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6638.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6028	
5°	5989	570
15°	5624	1561
25°	4186	1908
35°	2493	1548
45°	981	771
55°	220	215
65°	47	49
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6027.5
2.5°	6023.0
5°	5989.4
7.5°	5969.9
10°	5915.9
12.5°	5806.0
15°	5623.6
17.5°	5338.4
20°	4980.5
22.5°	4594.3
25°	4186.0
27.5°	3749.3
30°	3326.8
32.5°	2909.7
35°	2493.4
37.5°	2077.9
40°	1682.9
42.5°	1312.7
45°	981.4
47.5°	683.8
50°	465.0
52.5°	320.6
55°	220.5
57.5°	148.8
60°	101.0
62.5°	70.0
65°	46.9
67.5°	23.9
70°	15.9
72.5°	15.1
75°	13.3
77.5°	8.9
80°	6.2
82.5°	4.4
85°	2.7
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)