

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: P752689

Luminaire Tested: LD4D70BD010-EU4DR6070959027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5199.4 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

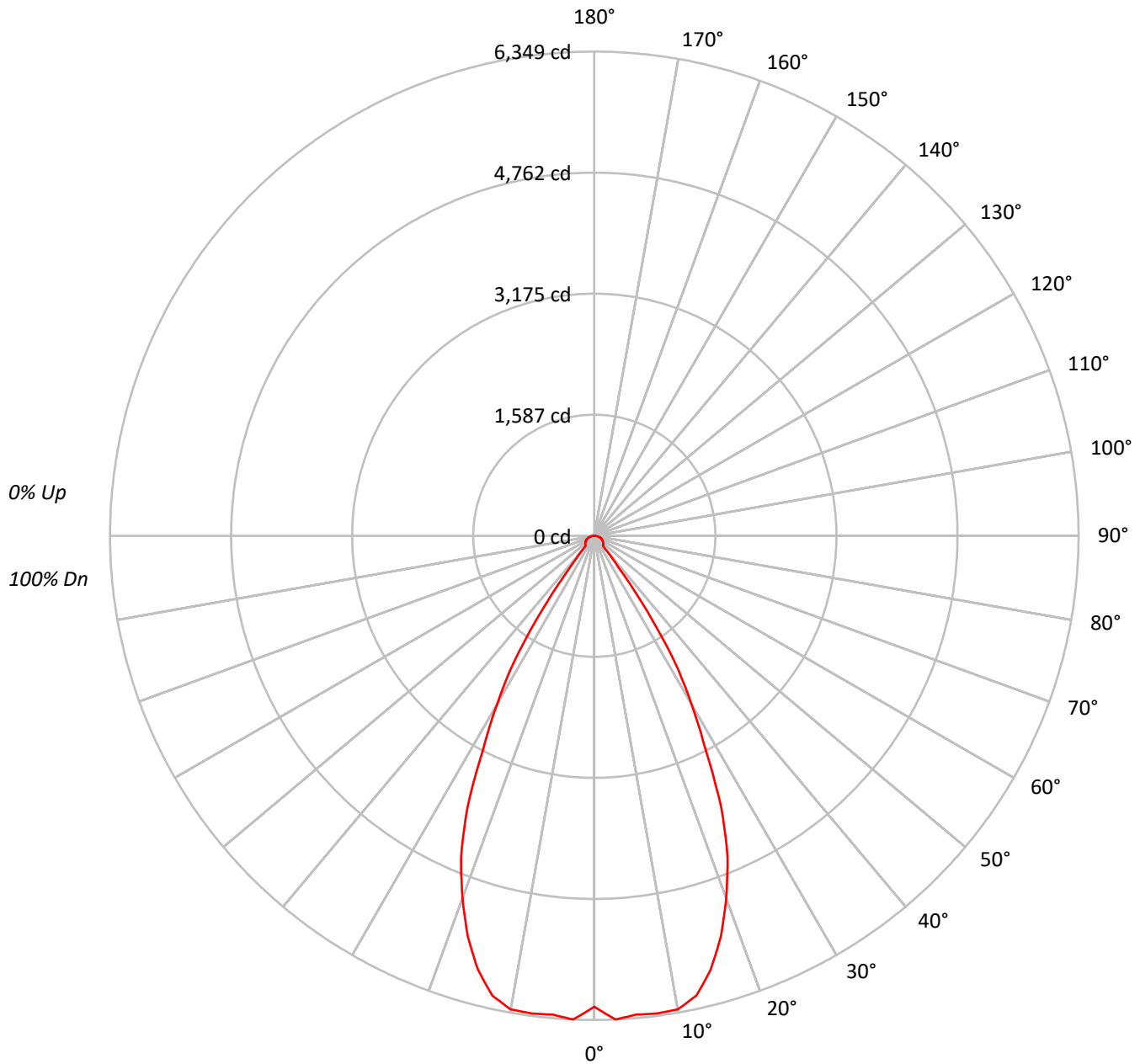


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	95		105	101	97	94		97	94	92		94	92	90		92	90	88
3	102	96	90	86		100	94	89	86		91	88	84		89	86	83		87	84	82
4	97	89	84	80		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74		91	83	78	74		81	77	73		80	76	72		78	75	72
6	88	79	73	69		87	78	73	69		77	72	68		75	71	68		74	70	67
7	84	75	69	65		83	74	68	64		73	68	64		72	67	64		71	67	63
8	80	71	65	61		79	70	65	61		69	64	60		68	64	60		67	63	60
9	77	67	61	57		75	67	61	57		66	61	57		65	60	57		64	60	57
10	73	64	58	54		72	63	58	54		62	58	54		62	57	54		61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	674685
5°	691268
10°	699627
15°	666485
20°	587631
25°	475292
30°	321502
35°	161100
40°	26130
45°	25573
50°	26092
55°	26478
60°	27228
65°	27844
70°	28496
75°	28833
80°	27811
85°	23192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 28833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.4	11.6
10°-20°	1629.8	31.3
20°-30°	1753.5	33.7
30°-40°	762.2	14.7
40°-50°	128.0	2.5
50°-60°	124.5	2.4
60°-70°	106.5	2.0
70°-80°	71.3	1.4
80°-90°	21.3	0.4
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°	3985.7	76.7
0°-40°	4747.9	91.3
0°-60°	5000.4	96.2
0°-90°	5199.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5199.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6175	
5°	6303	602
15°	5892	1630
25°	3942	1754
35°	1208	762
45°	166	128
55°	139	124
65°	108	106
75°	68	71
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6175.0
2.5°	6348.6
5°	6302.7
7.5°	6317.2
10°	6306.0
12.5°	6175.8
15°	5892.1
17.5°	5511.2
20°	5053.9
22.5°	4564.5
25°	3942.5
27.5°	3153.4
30°	2548.3
32.5°	1964.0
35°	1207.8
37.5°	516.7
40°	183.2
42.5°	168.8
45°	165.5
47.5°	159.9
50°	153.5
52.5°	146.3
55°	139.0
57.5°	131.8
60°	124.6
62.5°	116.5
65°	107.7
67.5°	98.8
70°	89.2
72.5°	78.8
75°	68.3
77.5°	56.3
80°	44.2
82.5°	31.3
85°	18.5
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)