

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: P752793

Luminaire Tested: LD4D70BD010-EU4DR6570959035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.9 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

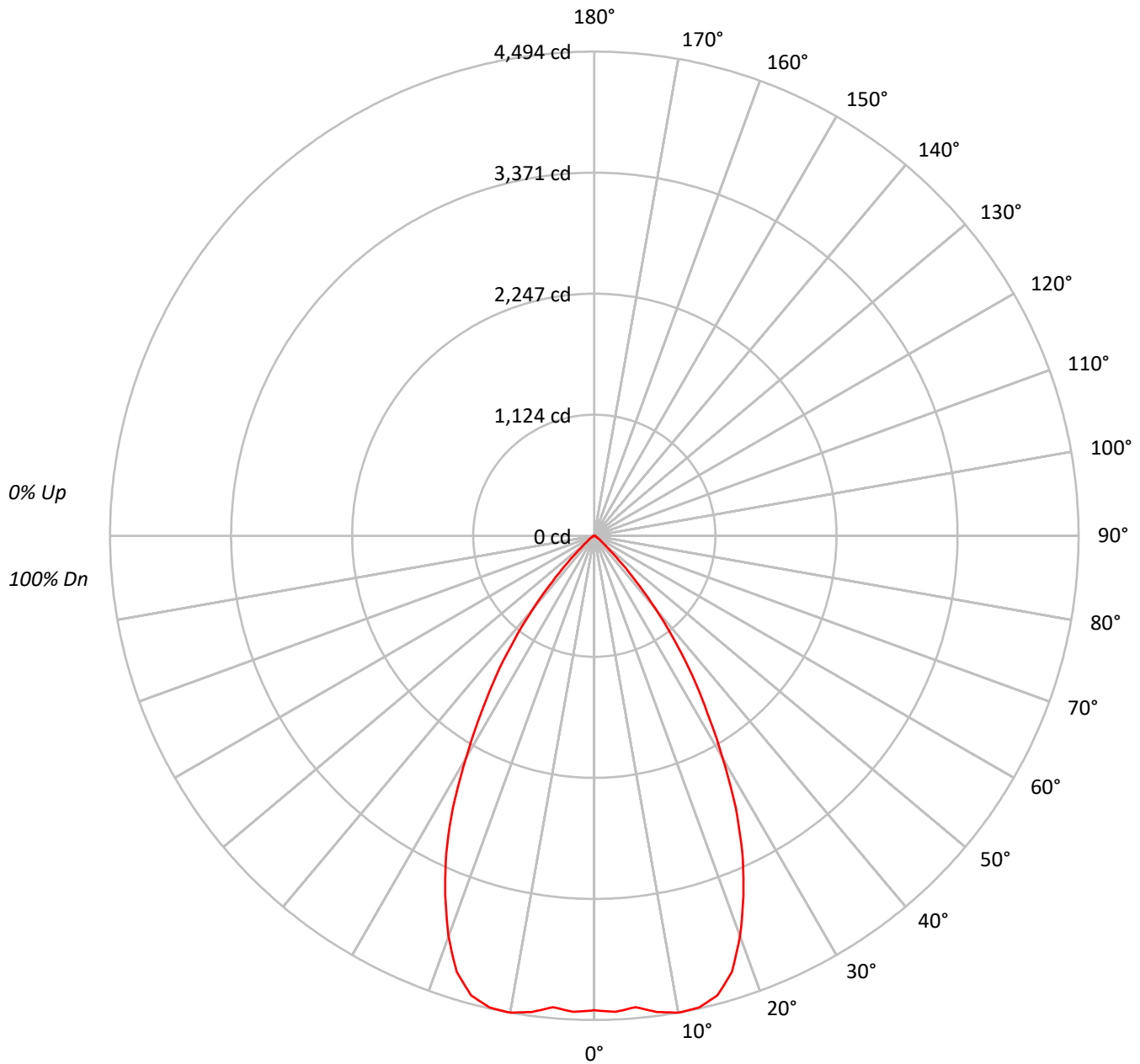


Downlight

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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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	481283
5°	481673
10°	498637
15°	499460
20°	459836
25°	391807
30°	299941
35°	211905
40°	125086
45°	50775
50°	18409
55°	10248
60°	5878
65°	3232
70°	3386
75°	2660
80°	2769
85°	2382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	9.5
10°-20°	1223.5	27.3
20°-30°	1468.0	32.8
30°-40°	986.5	22.1
40°-50°	295.3	6.6
50°-60°	52.1	1.2
60°-70°	14.8	0.3
70°-80°	7.3	0.2
80°-90°	2.3	0.1
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°	3115.6	69.6
0°-40°	4102.1	91.7
0°-60°	4449.5	99.5
0°-90°	4473.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4473.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4405	
5°	4392	424
15°	4416	1223
25°	3250	1468
35°	1589	987
45°	329	295
55°	54	52
65°	12	15
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4404.9
2.5°	4423.7
5°	4391.7
7.5°	4458.1
10°	4494.4
12.5°	4485.6
15°	4415.5
17.5°	4244.0
20°	3954.8
22.5°	3614.3
25°	3250.0
27.5°	2838.7
30°	2377.4
32.5°	1959.3
35°	1588.7
37.5°	1222.5
40°	877.0
42.5°	572.8
45°	328.6
47.5°	174.0
50°	108.3
52.5°	75.1
55°	53.8
57.5°	38.8
60°	26.9
62.5°	17.5
65°	12.5
67.5°	11.3
70°	10.6
72.5°	8.1
75°	6.3
77.5°	5.6
80°	4.4
82.5°	3.1
85°	1.9
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)