

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: P739729

Luminaire Tested: LD4D02D010-EU4DR700210IC9035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P739729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR700210IC9035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

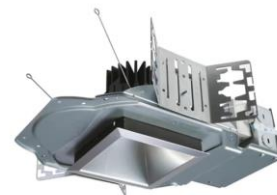
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 229.4 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



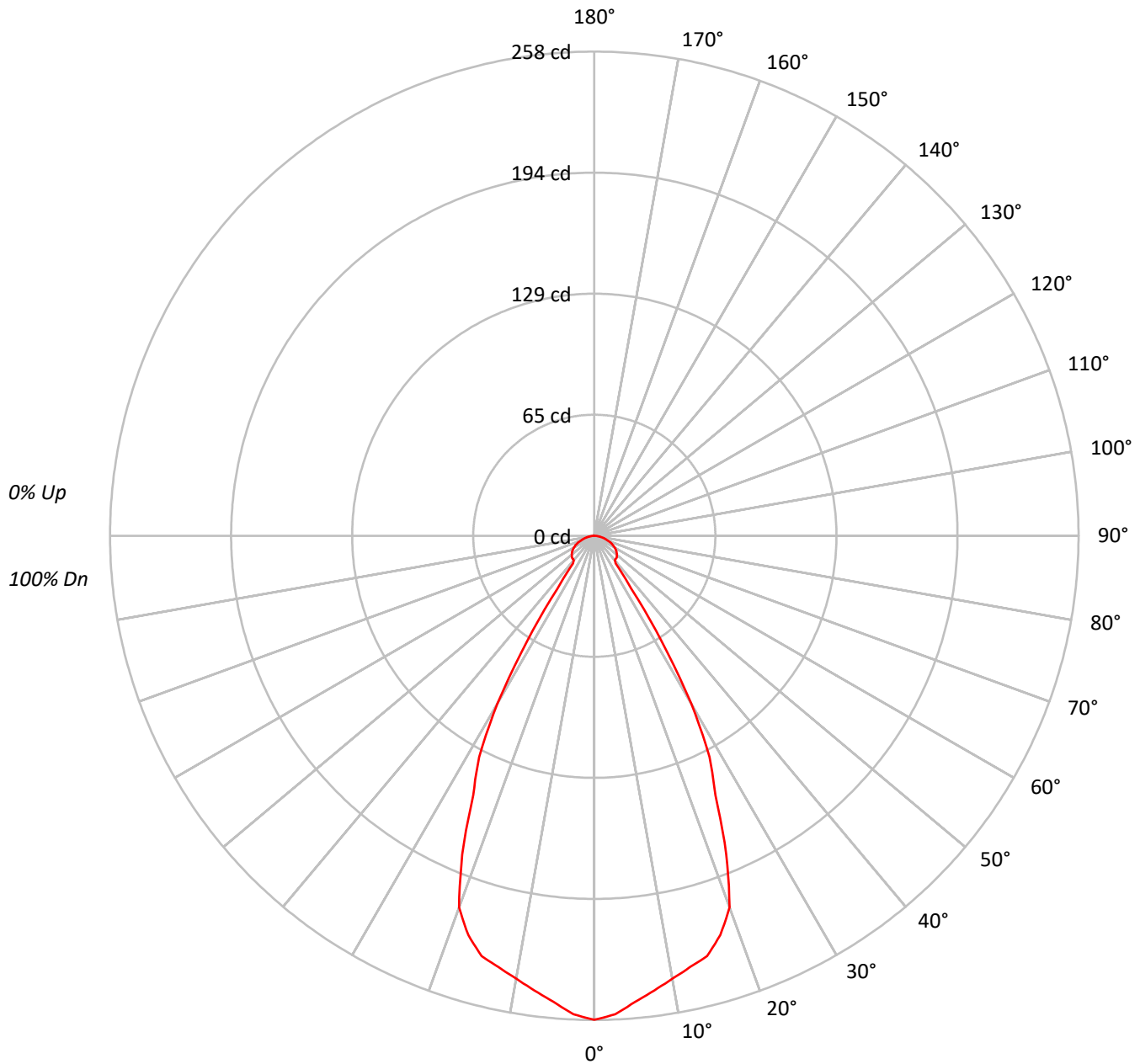
Downlight



TEST NUMBER: P739729

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28178
5°	27343
10°	26583
15°	26231
20°	24499
25°	18397
30°	13007
35°	4602
40°	2425
45°	2580
50°	2669
55°	2724
60°	2732
65°	2689
70°	2524
75°	2364
80°	2076
85°	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 2745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	10.3
10°-20°	64.5	28.1
20°-30°	71.0	31.0
30°-40°	27.1	11.8
40°-50°	12.8	5.6
50°-60°	12.7	5.6
60°-70°	10.2	4.5
70°-80°	5.9	2.6
80°-90°	1.6	0.7
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°	159.0	69.3
0°-40°	186.2	81.2
0°-60°	211.7	92.3
0°-90°	229.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	258	
5°	249	24
15°	232	64
25°	153	71
35°	34	27
45°	17	13
55°	14	13
65°	10	10
75°	6	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	257.9
2.5°	255.2
5°	249.3
7.5°	244.4
10°	239.6
12.5°	235.5
15°	231.9
17.5°	223.1
20°	210.7
22.5°	183.8
25°	152.6
27.5°	132.9
30°	103.1
32.5°	66.6
35°	34.5
37.5°	18.7
40°	17.0
42.5°	16.8
45°	16.7
47.5°	16.3
50°	15.7
52.5°	15.0
55°	14.3
57.5°	13.5
60°	12.5
62.5°	11.5
65°	10.4
67.5°	9.2
70°	7.9
72.5°	6.7
75°	5.6
77.5°	4.4
80°	3.3
82.5°	2.3
85°	1.4
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)