

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: P752884

Luminaire Tested: LD4D70BD010-EU4DR7070959040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752884
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: LD4D70BD010-EU4DR7070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.8 lumens
Efficiency: N/A
Efficacy: 63.3 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): 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

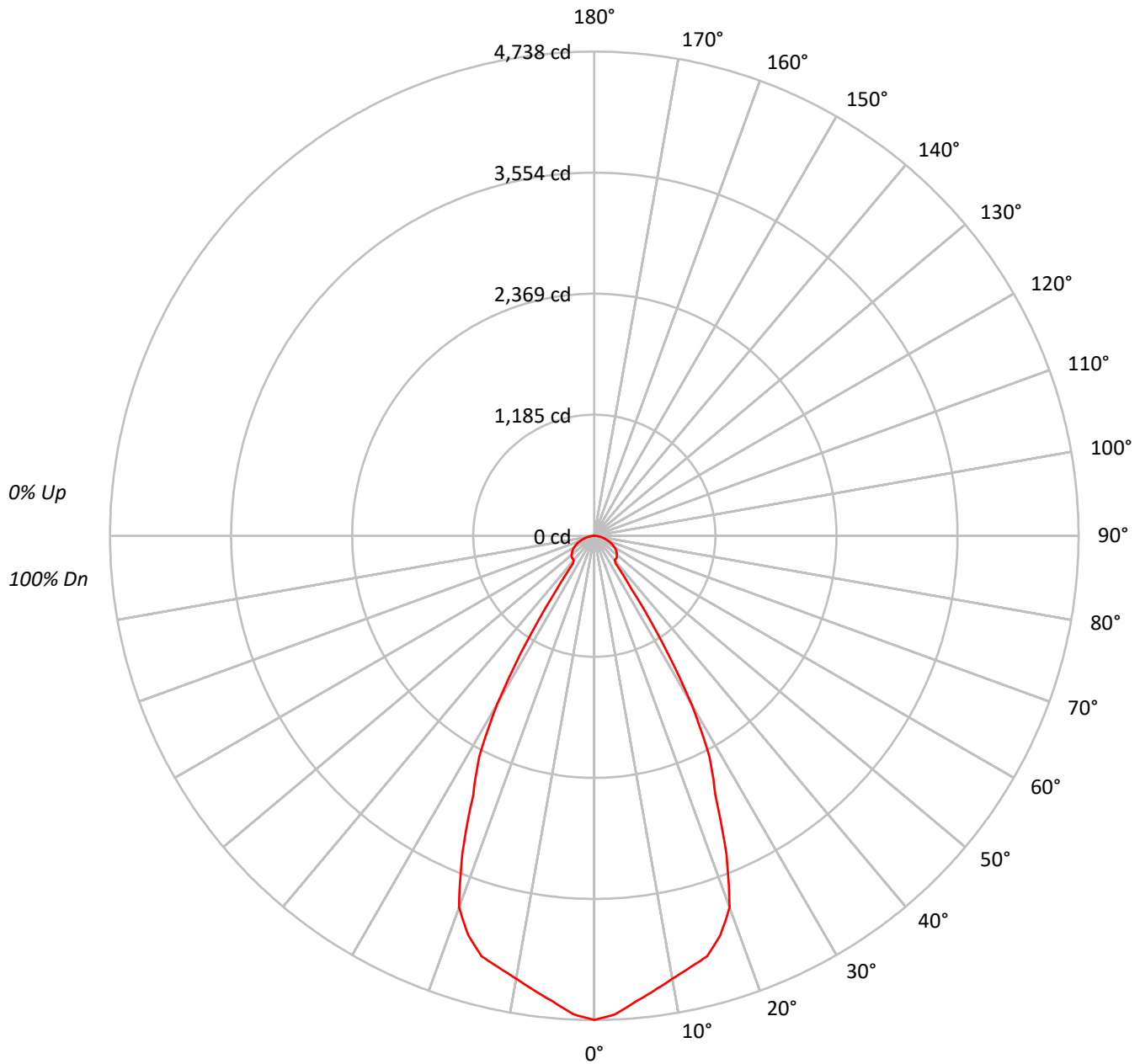


Downlight

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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	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°	517623
5°	502238
10°	488241
15°	481836
20°	449941
25°	338015
30°	238941
35°	84645
40°	44500
45°	47406
50°	49090
55°	50004
60°	50326
65°	49251
70°	46481
75°	43059
80°	38256
85°	31090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	10.3
10°-20°	1184.7	28.1
20°-30°	1304.8	31.0
30°-40°	498.5	11.8
40°-50°	235.4	5.6
50°-60°	234.0	5.6
60°-70°	187.4	4.4
70°-80°	107.7	2.6
80°-90°	29.3	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°	2921.5	69.3
0°-40°	3420.0	81.2
0°-60°	3889.4	92.3
0°-90°	4213.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4738	
5°	4579	432
15°	4260	1185
25°	2804	1305
35°	635	499
45°	307	235
55°	262	234
65°	190	187
75°	102	108
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4737.5
2.5°	4688.0
5°	4579.2
7.5°	4488.5
10°	4400.7
12.5°	4326.5
15°	4259.7
17.5°	4098.4
20°	3869.7
22.5°	3376.1
25°	2803.8
27.5°	2440.8
30°	1893.9
32.5°	1223.4
35°	634.6
37.5°	342.8
40°	312.0
42.5°	309.8
45°	306.8
47.5°	300.0
50°	288.8
52.5°	276.0
55°	262.5
57.5°	247.5
60°	230.3
62.5°	210.8
65°	190.5
67.5°	168.0
70°	145.5
72.5°	123.0
75°	102.0
77.5°	80.3
80°	60.8
82.5°	42.8
85°	24.8
87.5°	9.8
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)