

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: P752897

Luminaire Tested: LD4D70BD010-EU4DR7070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752897
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-EU4DR7070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4243.9 lumens
Efficiency: N/A
Efficacy: 63.7 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

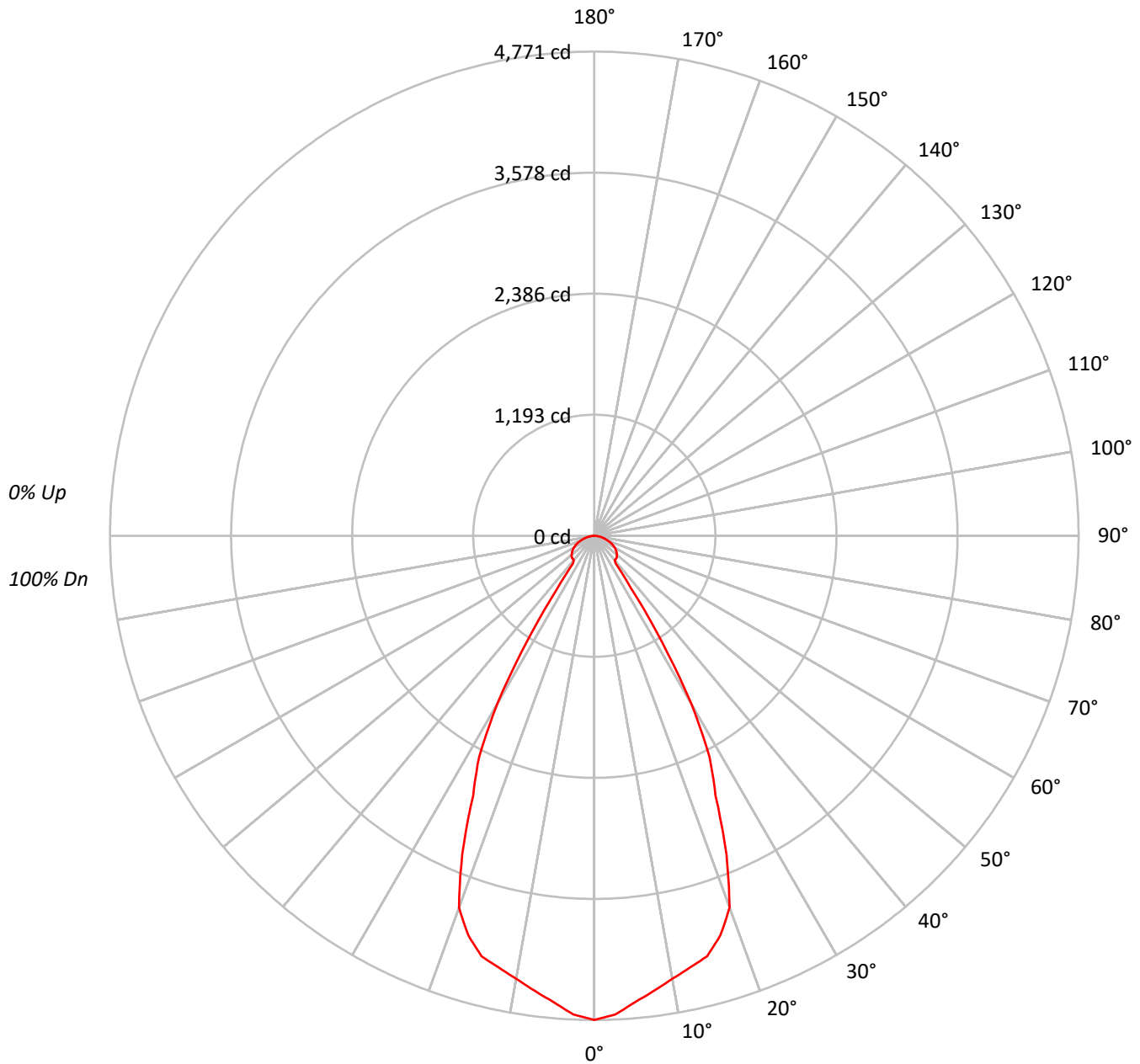


Downlight

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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					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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	521316
5°	505824
10°	491725
15°	485275
20°	453150
25°	340426
30°	240657
35°	85245
40°	44829
45°	47746
50°	49430
55°	50366
60°	50675
65°	49612
70°	46832
75°	43355
80°	38508
85°	31215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 50696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	10.3
10°-20°	1193.2	28.1
20°-30°	1314.1	31.0
30°-40°	502.1	11.8
40°-50°	237.1	5.6
50°-60°	235.7	5.6
60°-70°	188.7	4.4
70°-80°	108.4	2.6
80°-90°	29.5	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°	2942.3	69.3
0°-40°	3444.4	81.2
0°-60°	3917.2	92.3
0°-90°	4243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4243.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4771	
5°	4612	435
15°	4290	1193
25°	2824	1314
35°	639	502
45°	309	237
55°	264	236
65°	192	189
75°	103	108
85°	25	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4771.3
2.5°	4721.5
5°	4611.9
7.5°	4520.5
10°	4432.1
12.5°	4357.4
15°	4290.1
17.5°	4127.7
20°	3897.3
22.5°	3400.2
25°	2823.8
27.5°	2458.2
30°	1907.5
32.5°	1232.1
35°	639.1
37.5°	345.2
40°	314.3
42.5°	312.0
45°	309.0
47.5°	302.2
50°	290.8
52.5°	278.0
55°	264.4
57.5°	249.3
60°	231.9
62.5°	212.3
65°	191.9
67.5°	169.2
70°	146.6
72.5°	123.9
75°	102.7
77.5°	80.8
80°	61.2
82.5°	43.1
85°	24.9
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)