

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: P753666

Luminaire Tested: LD4D75BD010-EU4DR7070959040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753666
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: LD4D75BD010-EU4DR7070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8037.4 lumens
Efficiency: N/A
Efficacy: 111.0 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): 72.4
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

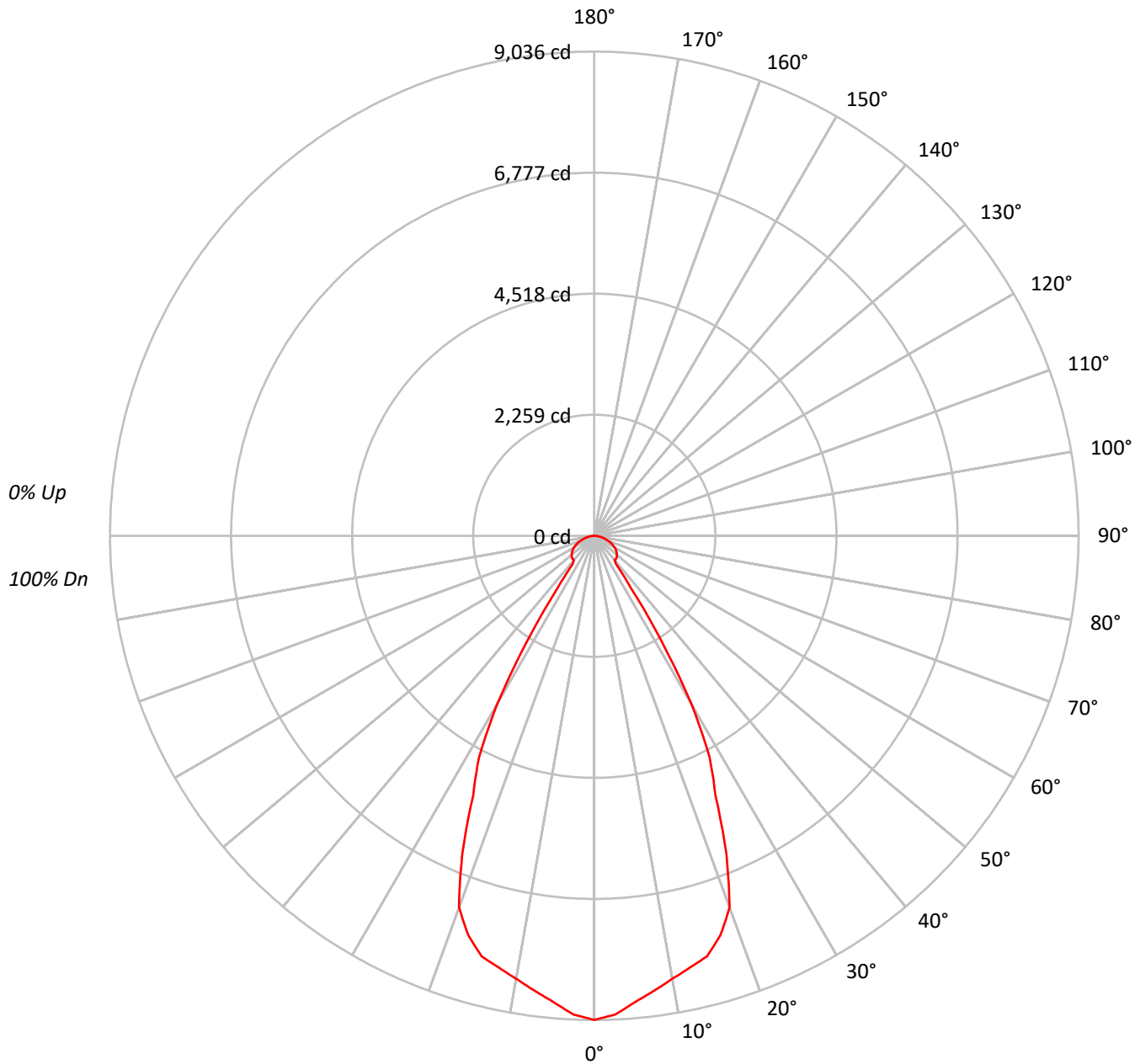


Downlight

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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°	987324
5°	957983
10°	931283
15°	919060
20°	858222
25°	644733
30°	455778
35°	161446
40°	84893
45°	90424
50°	93625
55°	95378
60°	95975
65°	93951
70°	88681
75°	82151
80°	72925
85°	59171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 96002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.8	10.3
10°-20°	2259.8	28.1
20°-30°	2488.8	31.0
30°-40°	950.9	11.8
40°-50°	449.0	5.6
50°-60°	446.4	5.6
60°-70°	357.4	4.4
70°-80°	205.4	2.6
80°-90°	55.9	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°	5572.5	69.3
0°-40°	6523.4	81.2
0°-60°	7418.8	92.3
0°-90°	8037.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8037.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9036	
5°	8734	824
15°	8125	2260
25°	5348	2489
35°	1210	951
45°	585	449
55°	501	446
65°	363	357
75°	195	205
85°	47	56
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9036.4
2.5°	8942.0
5°	8734.5
7.5°	8561.4
10°	8394.0
12.5°	8252.4
15°	8125.0
17.5°	7817.4
20°	7381.1
22.5°	6439.6
25°	5348.0
27.5°	4655.5
30°	3612.6
32.5°	2333.5
35°	1210.4
37.5°	653.8
40°	595.2
42.5°	590.9
45°	585.2
47.5°	572.3
50°	550.8
52.5°	526.5
55°	500.7
57.5°	472.1
60°	439.2
62.5°	402.0
65°	363.4
67.5°	320.5
70°	277.6
72.5°	234.6
75°	194.6
77.5°	153.1
80°	115.9
82.5°	81.6
85°	47.2
87.5°	18.6
90°	0.0



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— 0°-180°







(END OF REPORT)