

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: P753615

Luminaire Tested: LD4D75BD010-EU4DR7070959024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753615
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-EU4DR7070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4843.5 lumens
Efficiency: N/A
Efficacy: 66.9 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

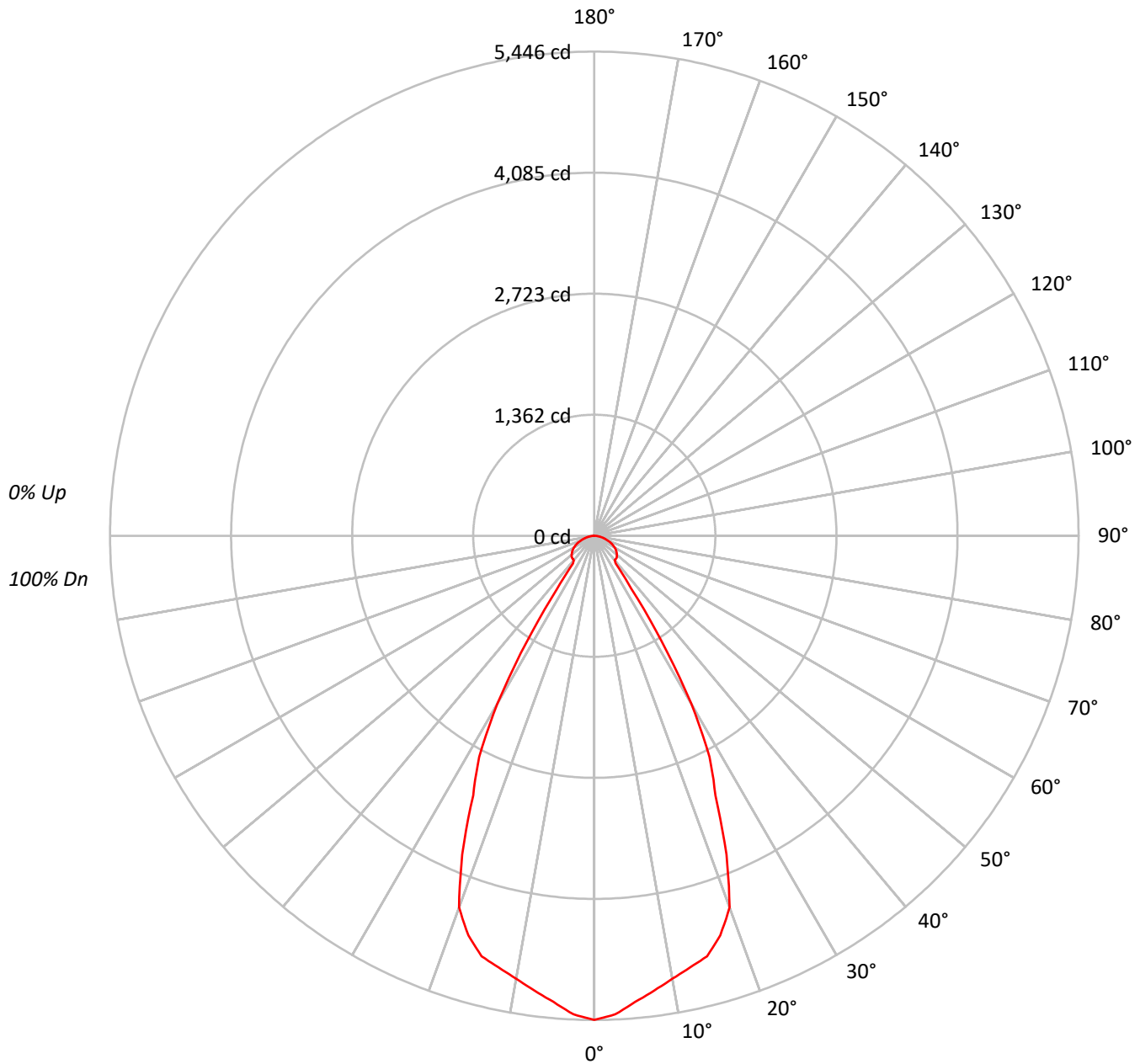


Downlight

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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°	594979
5°	577302
10°	561211
15°	553845
20°	517182
25°	388528
30°	274658
35°	97289
40°	51161
45°	54483
50°	56416
55°	57490
60°	57843
65°	56619
70°	53445
75°	49518
80°	43919
85°	35728

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 57854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.5	10.3
10°-20°	1361.8	28.1
20°-30°	1499.8	31.0
30°-40°	573.0	11.8
40°-50°	270.6	5.6
50°-60°	269.0	5.6
60°-70°	215.4	4.4
70°-80°	123.8	2.6
80°-90°	33.6	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°	3358.1	69.3
0°-40°	3931.1	81.2
0°-60°	4470.7	92.3
0°-90°	4843.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5446	
5°	5264	496
15°	4896	1362
25°	3223	1500
35°	729	573
45°	353	271
55°	302	269
65°	219	215
75°	117	124
85°	28	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5445.5
2.5°	5388.6
5°	5263.6
7.5°	5159.3
10°	5058.4
12.5°	4973.0
15°	4896.3
17.5°	4710.9
20°	4448.0
22.5°	3880.7
25°	3222.8
27.5°	2805.5
30°	2177.0
32.5°	1406.2
35°	729.4
37.5°	394.0
40°	358.7
42.5°	356.1
45°	352.6
47.5°	344.9
50°	331.9
52.5°	317.3
55°	301.8
57.5°	284.5
60°	264.7
62.5°	242.3
65°	219.0
67.5°	193.1
70°	167.3
72.5°	141.4
75°	117.3
77.5°	92.3
80°	69.8
82.5°	49.1
85°	28.5
87.5°	11.2
90°	0.0



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— 0°-180°







(END OF REPORT)