

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: P753640

Luminaire Tested: LD4D75BD010-EU4DR7070959030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753640
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-EU4DR7070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7598.4 lumens
Efficiency: N/A
Efficacy: 104.9 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

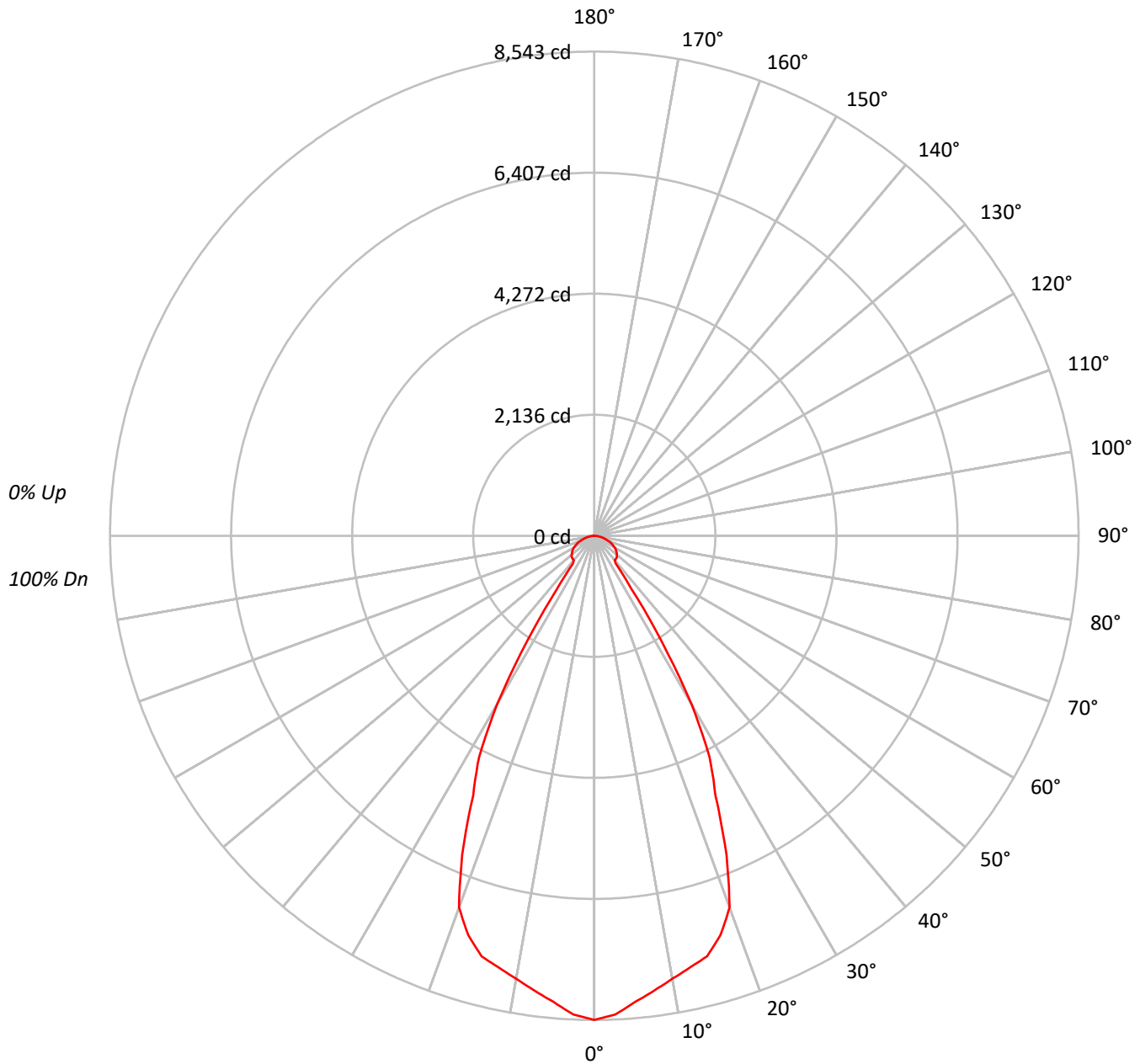


Downlight

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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				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	933393
5°	905656
10°	880414
15°	868859
20°	811340
25°	609519
30°	430873
35°	152630
40°	80258
45°	85479
50°	88508
55°	90178
60°	90730
65°	88832
70°	83826
75°	77634
80°	68961
85°	55912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 90756 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.8	10.3
10°-20°	2136.4	28.1
20°-30°	2352.9	31.0
30°-40°	899.0	11.8
40°-50°	424.5	5.6
50°-60°	422.0	5.6
60°-70°	337.9	4.4
70°-80°	194.2	2.6
80°-90°	52.8	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°	5268.1	69.3
0°-40°	6167.1	81.2
0°-60°	7013.5	92.3
0°-90°	7598.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7598.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8543	
5°	8257	779
15°	7681	2136
25°	5056	2353
35°	1144	899
45°	553	424
55°	473	422
65°	344	338
75°	184	194
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8542.8
2.5°	8453.5
5°	8257.4
7.5°	8093.8
10°	7935.5
12.5°	7801.6
15°	7681.2
17.5°	7390.4
20°	6977.9
22.5°	6087.9
25°	5055.9
27.5°	4401.2
30°	3415.2
32.5°	2206.0
35°	1144.3
37.5°	618.1
40°	562.7
42.5°	558.6
45°	553.2
47.5°	541.0
50°	520.7
52.5°	497.7
55°	473.4
57.5°	446.3
60°	415.2
62.5°	380.1
65°	343.6
67.5°	303.0
70°	262.4
72.5°	221.8
75°	183.9
77.5°	144.7
80°	109.6
82.5°	77.1
85°	44.6
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)