

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: P754434

Luminaire Tested: LD4D80BD010-EU4DR7070959035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754434
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: LD4D80BD010-EU4DR7070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6063.7 lumens
Efficiency: N/A
Efficacy: 76.9 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): 78.9
Input Voltage (V): NR
Input Current (A_{in}): 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

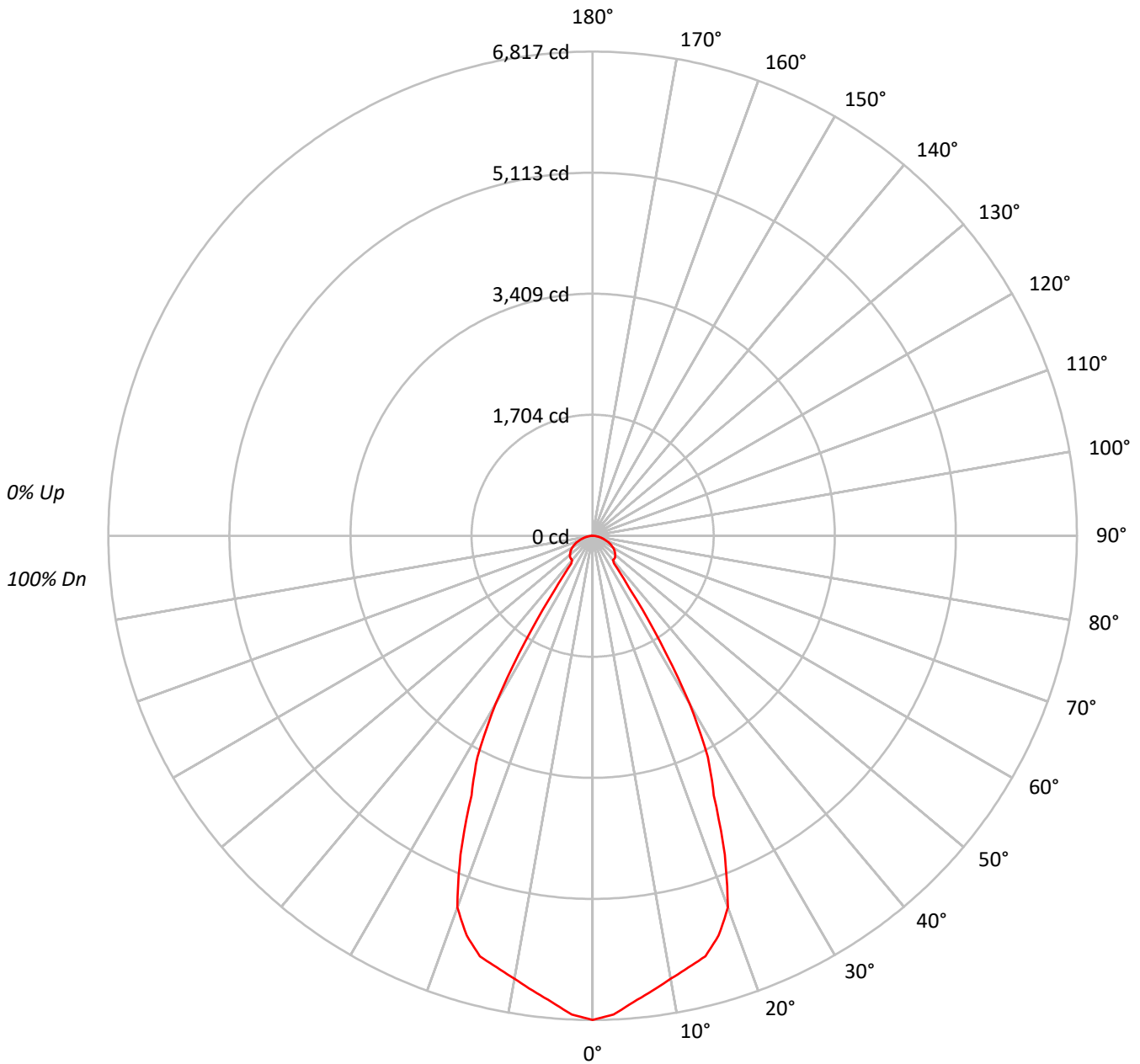


Downlight

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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
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°	744863
5°	722735
10°	702589
15°	693361
20°	647465
25°	486407
30°	343846
35°	121792
40°	64041
45°	68220
50°	70644
55°	71967
60°	72418
65°	70890
70°	66894
75°	61972
80°	54993
85°	44629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 72434 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	10.3
10°-20°	1704.8	28.1
20°-30°	1877.7	31.0
30°-40°	717.4	11.8
40°-50°	338.7	5.6
50°-60°	336.8	5.6
60°-70°	269.6	4.4
70°-80°	155.0	2.6
80°-90°	42.1	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°	4204.0	69.3
0°-40°	4921.4	81.2
0°-60°	5597.0	92.3
0°-90°	6063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6063.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6817	
5°	6590	622
15°	6130	1705
25°	4035	1878
35°	913	717
45°	442	339
55°	378	337
65°	274	270
75°	147	155
85°	36	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6817.3
2.5°	6746.1
5°	6589.6
7.5°	6459.0
10°	6332.7
12.5°	6225.8
15°	6129.7
17.5°	5897.7
20°	5568.5
22.5°	4858.2
25°	4034.7
27.5°	3512.3
30°	2725.4
32.5°	1760.5
35°	913.1
37.5°	493.3
40°	449.0
42.5°	445.8
45°	441.5
47.5°	431.7
50°	415.6
52.5°	397.2
55°	377.8
57.5°	356.2
60°	331.4
62.5°	303.3
65°	274.2
67.5°	241.8
70°	209.4
72.5°	177.0
75°	146.8
77.5°	115.5
80°	87.4
82.5°	61.5
85°	35.6
87.5°	14.0
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)