

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: P754334

Luminaire Tested: LD4D80BD010-EU4DR6570959027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P754334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6570959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6474.5 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

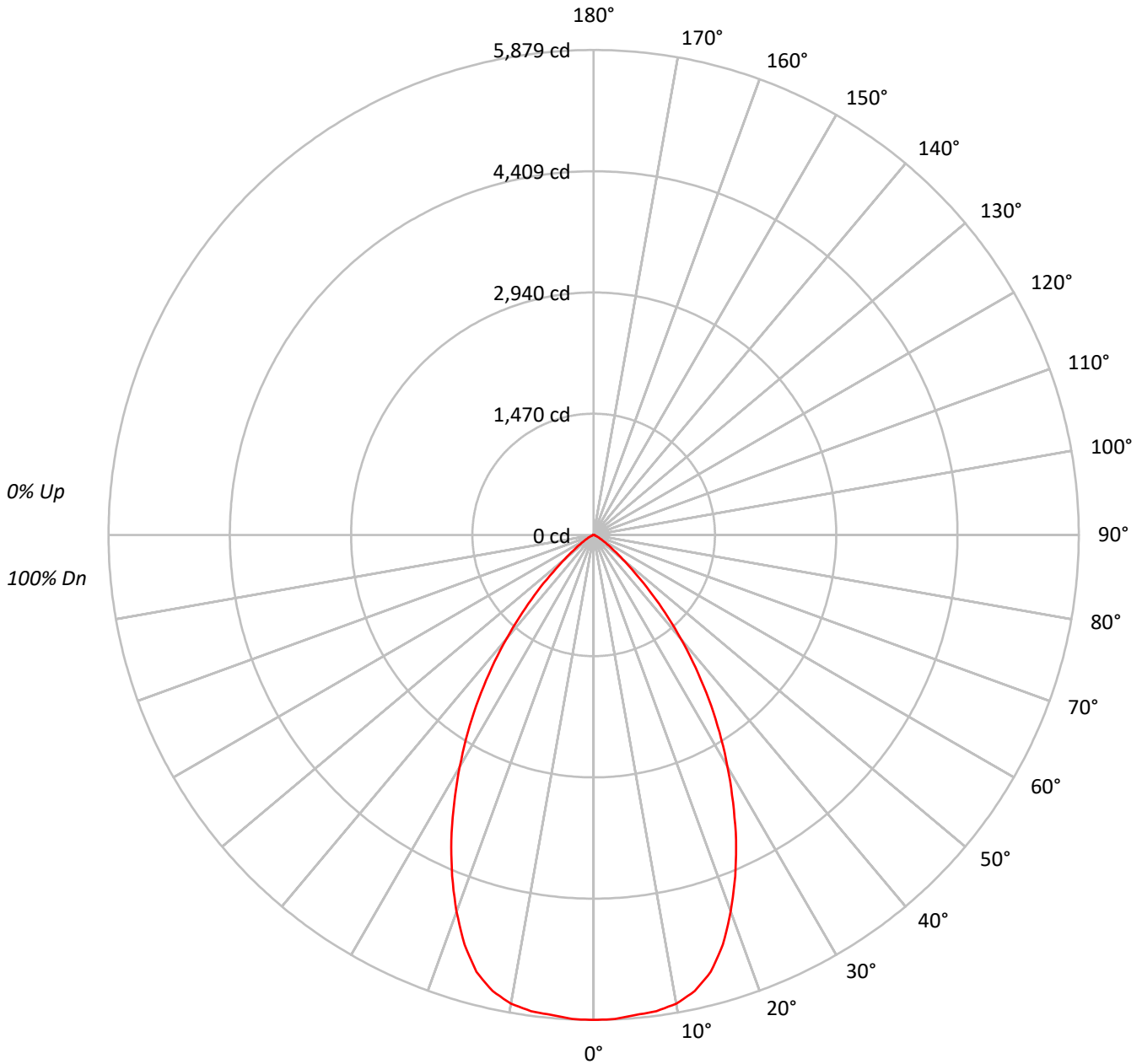


Downlight

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	343345
5°	342475
10°	342183
15°	331634
20°	301910
25°	263095
30°	218826
35°	173382
40°	125142
45°	79060
50°	41205
55°	21902
60°	11506
65°	6329
70°	2647
75°	2934
80°	2018
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 79060 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.9	8.6
10°-20°	1522.4	23.5
20°-30°	1860.9	28.7
30°-40°	1509.9	23.3
40°-50°	752.4	11.6
50°-60°	209.8	3.2
60°-70°	47.7	0.7
70°-80°	12.4	0.2
80°-90°	3.2	0.0
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°	3939.2	60.8
0°-40°	5449.1	84.2
0°-60°	6411.3	99.0
0°-90°	6474.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6474.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5879	
5°	5842	556
15°	5485	1522
25°	4083	1861
35°	2432	1510
45°	957	752
55°	215	210
65°	46	48
75°	13	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5878.8
2.5°	5874.4
5°	5841.6
7.5°	5822.6
10°	5769.9
12.5°	5662.8
15°	5484.8
17.5°	5206.7
20°	4857.6
22.5°	4481.0
25°	4082.7
27.5°	3656.8
30°	3244.8
32.5°	2837.9
35°	2431.8
37.5°	2026.7
40°	1641.4
42.5°	1280.3
45°	957.2
47.5°	666.9
50°	453.5
52.5°	312.7
55°	215.1
57.5°	145.1
60°	98.5
62.5°	68.2
65°	45.8
67.5°	23.3
70°	15.5
72.5°	14.7
75°	13.0
77.5°	8.6
80°	6.0
82.5°	4.3
85°	2.6
87.5°	1.7
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)