

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: P754460

Luminaire Tested: LD4D80BD010-EU4DR7070959050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754460
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-EU4DR7070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6392.6 lumens
Efficiency: N/A
Efficacy: 81.0 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

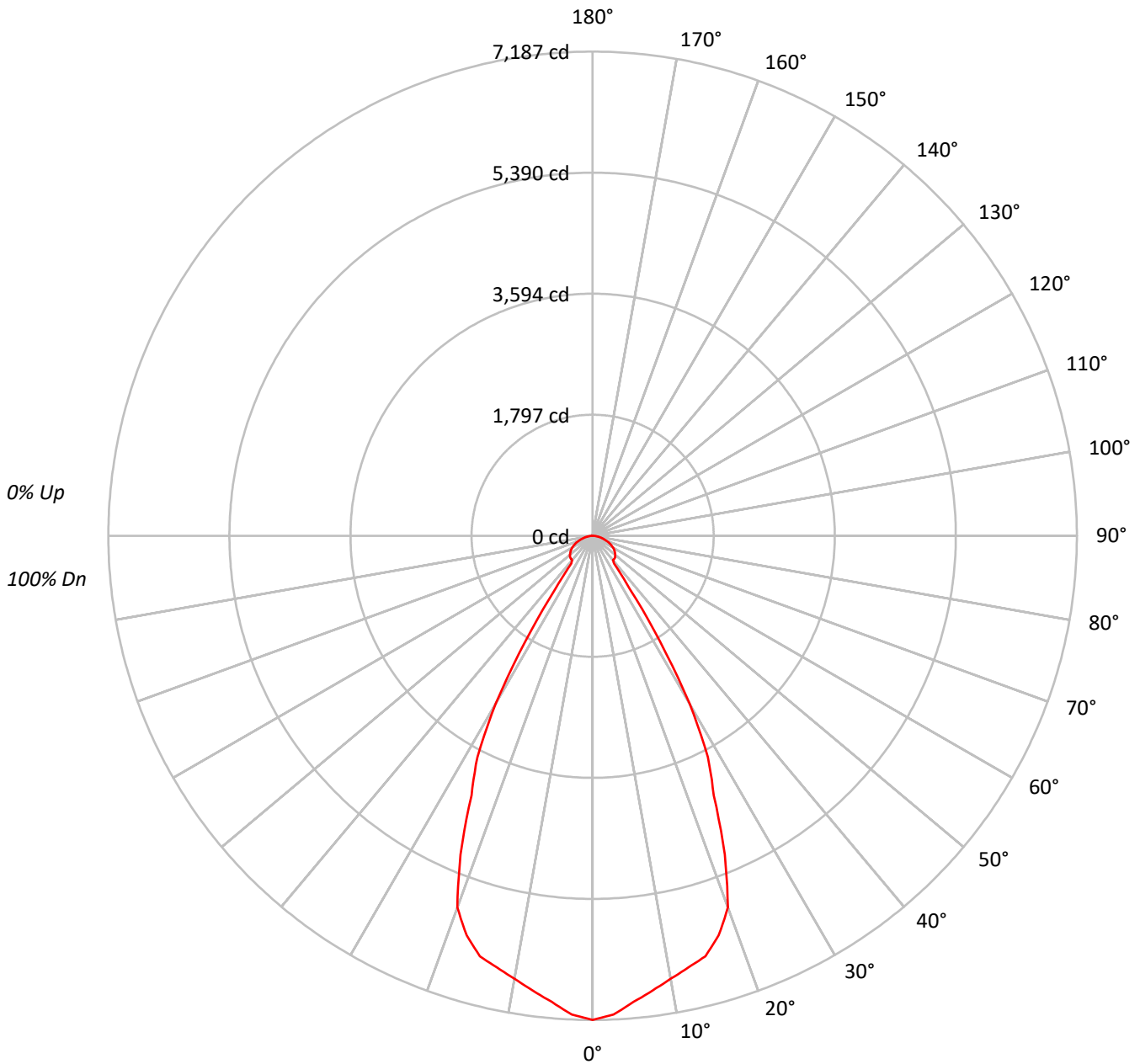
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	785257
5°	761923
10°	740688
15°	730972
20°	682568
25°	512785
30°	362493
35°	128408
40°	67521
45°	71913
50°	74468
55°	75872
60°	76330
65°	74716
70°	70536
75°	65349
80°	58013
85°	47136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 76359 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.2	10.3
10°-20°	1797.3	28.1
20°-30°	1979.5	31.0
30°-40°	756.3	11.8
40°-50°	357.1	5.6
50°-60°	355.0	5.6
60°-70°	284.3	4.4
70°-80°	163.4	2.6
80°-90°	44.4	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°	4432.0	69.3
0°-40°	5188.3	81.2
0°-60°	5900.5	92.3
0°-90°	6392.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6392.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7187	
5°	6947	655
15°	6462	1797
25°	4254	1979
35°	963	756
45°	465	357
55°	398	355
65°	289	284
75°	155	163
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7187.0
2.5°	7111.9
5°	6946.9
7.5°	6809.2
10°	6676.1
12.5°	6563.4
15°	6462.2
17.5°	6217.5
20°	5870.4
22.5°	5121.7
25°	4253.5
27.5°	3702.7
30°	2873.2
32.5°	1855.9
35°	962.7
37.5°	520.0
40°	473.4
42.5°	470.0
45°	465.4
47.5°	455.2
50°	438.1
52.5°	418.7
55°	398.3
57.5°	375.5
60°	349.3
62.5°	319.8
65°	289.0
67.5°	254.9
70°	220.8
72.5°	186.6
75°	154.8
77.5°	121.8
80°	92.2
82.5°	64.9
85°	37.6
87.5°	14.8
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)