

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: P754073

Luminaire Tested: LD4D80BD010-EU4DR4570959050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR4570959050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9178.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

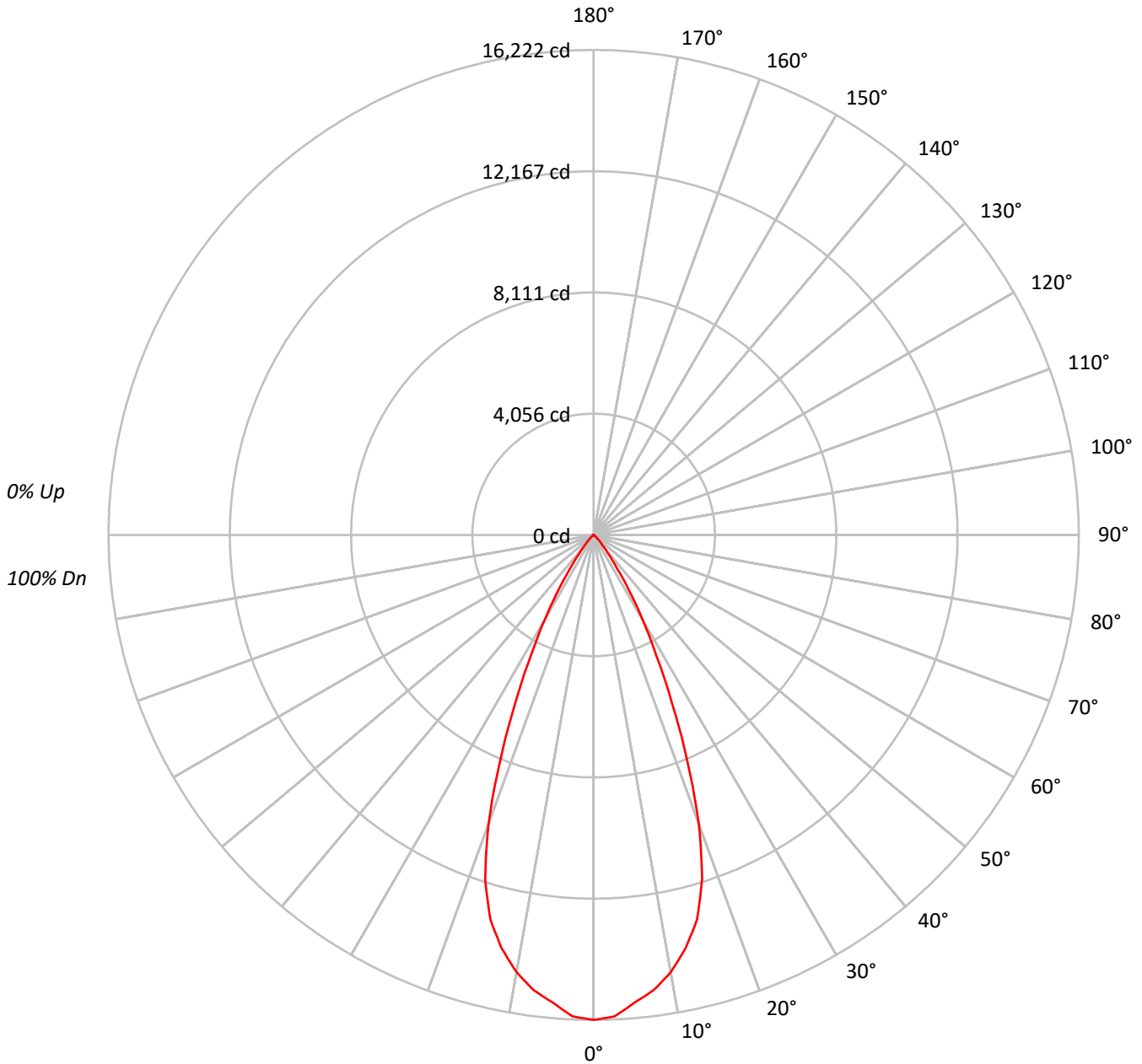
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P754073
CATALOG NUMBER: LD4D80BD010-EU4DR4570959050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P754073

CATALOG NUMBER: LD4D80BD010-EU4DR4570959050-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95						95													
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90						90													
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85						85													
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81						81													
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77						77													
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73						73													
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69						69													
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66						66													
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63						63													
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60						60													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1772483
5°	1722012
10°	1647497
15°	1507812
20°	1196215
25°	746820
30°	411621
35°	184828
40°	72798
45°	34303
50°	16267
55°	8515
60°	4174
65°	982
70°	415
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 34303 cd/sqm



TEST NUMBER: P754073

CATALOG NUMBER: LD4D80BD010-EU4DR4570959050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1475.2	16.1
10°-20°	3630.7	39.6
20°-30°	2875.1	31.3
30°-40°	957.5	10.4
40°-50°	190.0	2.1
50°-60°	43.1	0.5
60°-70°	6.2	0.1
70°-80°	0.2	0.0
80°-90°	0.0	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°	7981.1	87.0
0°-40°	8938.5	97.4
0°-60°	9171.7	99.9
0°-90°	9178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9178.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16222	
5°	15701	###
15°	13330	3631
25°	6195	2875
35°	1386	957
45°	222	190
55°	45	43
65°	4	6
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754073

CATALOG NUMBER: LD4D80BD010-EU4DR4570959050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	16222.5
2.5°	16116.6
5°	15700.6
7.5°	15357.4
10°	14849.5
12.5°	14173.3
15°	13329.9
17.5°	12061.6
20°	10288.0
22.5°	8175.0
25°	6194.8
27.5°	4536.0
30°	3262.6
32.5°	2218.9
35°	1385.7
37.5°	821.7
40°	510.4
42.5°	335.6
45°	222.0
47.5°	142.9
50°	95.7
52.5°	63.8
55°	44.7
57.5°	29.3
60°	19.1
62.5°	10.2
65°	3.8
67.5°	1.3
70°	1.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)