

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: P754356

Luminaire Tested: LD4D80BD010-EU4DR6570959035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P754356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D80BD010-EU4DR6570959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5814.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

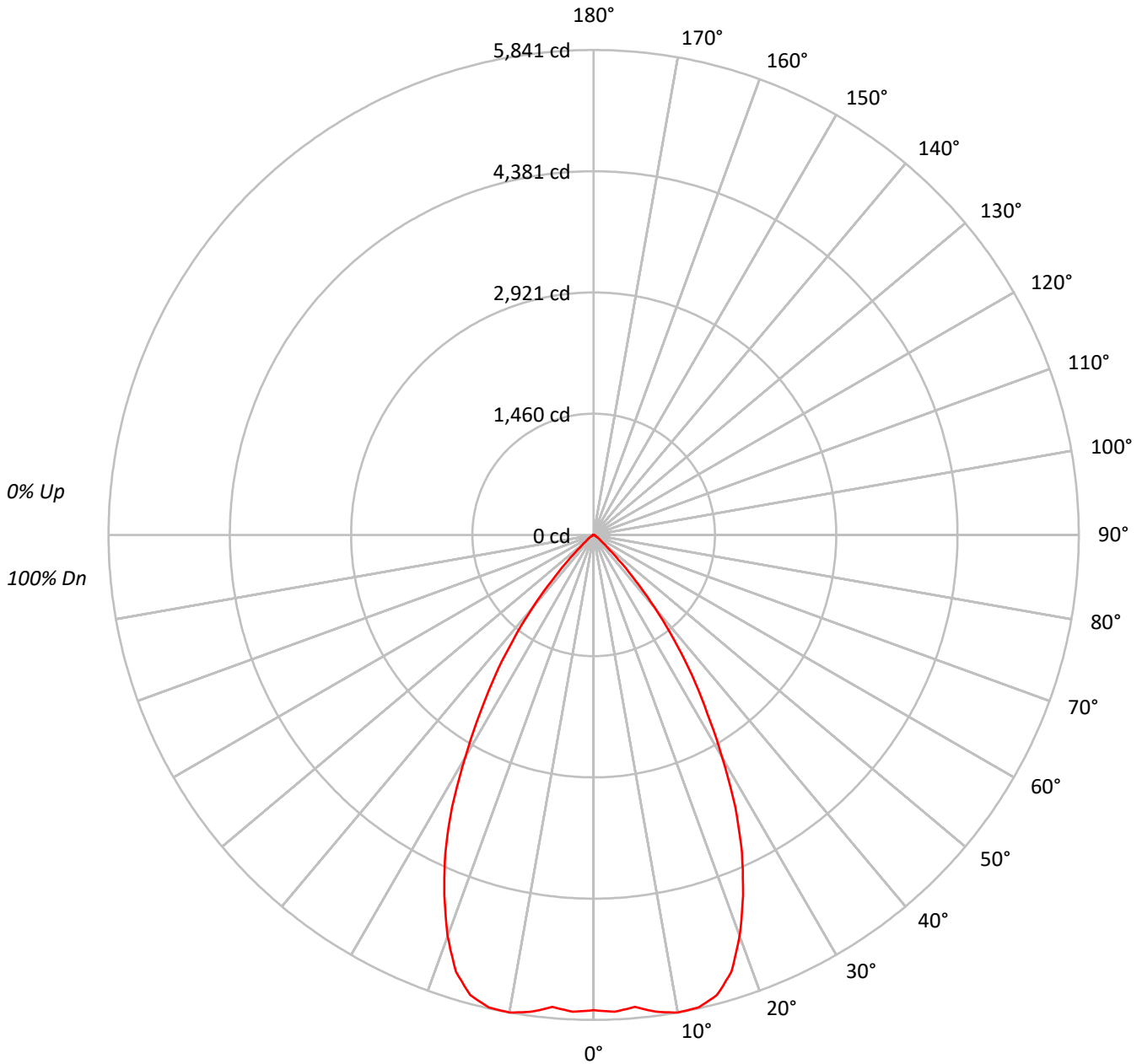
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P754356
CATALOG NUMBER: LD4D80BD010-EU4DR6570959035-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P754356

CATALOG NUMBER: LD4D80BD010-EU4DR6570959035-4LBDP1MW

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	625474
5°	625988
10°	648026
15°	649099
20°	597608
25°	509192
30°	389807
35°	275395
40°	162555
45°	65995
50°	23916
55°	13334
60°	7648
65°	4214
70°	4409
75°	3419
80°	3586
85°	3009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 65995 cd/sqm



TEST NUMBER: P754356

CATALOG NUMBER: LD4D80BD010-EU4DR6570959035-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	9.5
10°-20°	1590.0	27.3
20°-30°	1907.8	32.8
30°-40°	1282.1	22.1
40°-50°	383.8	6.6
50°-60°	67.7	1.2
60°-70°	19.3	0.3
70°-80°	9.4	0.2
80°-90°	3.0	0.1
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°	4049.0	69.6
0°-40°	5331.1	91.7
0°-60°	5782.6	99.5
0°-90°	5814.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5814.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5725	
5°	5708	551
15°	5738	1590
25°	4224	1908
35°	2065	1282
45°	427	384
55°	70	68
65°	16	19
75°	8	9
85°	2	3
90°	0	



TEST NUMBER: P754356

CATALOG NUMBER: LD4D80BD010-EU4DR6570959035-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5724.6
2.5°	5749.0
5°	5707.5
7.5°	5793.7
10°	5840.9
12.5°	5829.5
15°	5738.4
17.5°	5515.5
20°	5139.7
22.5°	4697.1
25°	4223.7
27.5°	3689.2
30°	3089.7
32.5°	2546.2
35°	2064.7
37.5°	1588.8
40°	1139.7
42.5°	744.3
45°	427.1
47.5°	226.2
50°	140.7
52.5°	97.6
55°	70.0
57.5°	50.4
60°	35.0
62.5°	22.8
65°	16.3
67.5°	14.6
70°	13.8
72.5°	10.6
75°	8.1
77.5°	7.3
80°	5.7
82.5°	4.1
85°	2.4
87.5°	1.6
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)