

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: P755069

Luminaire Tested: LD4D85BD010-EU4DR6070959040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8594.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

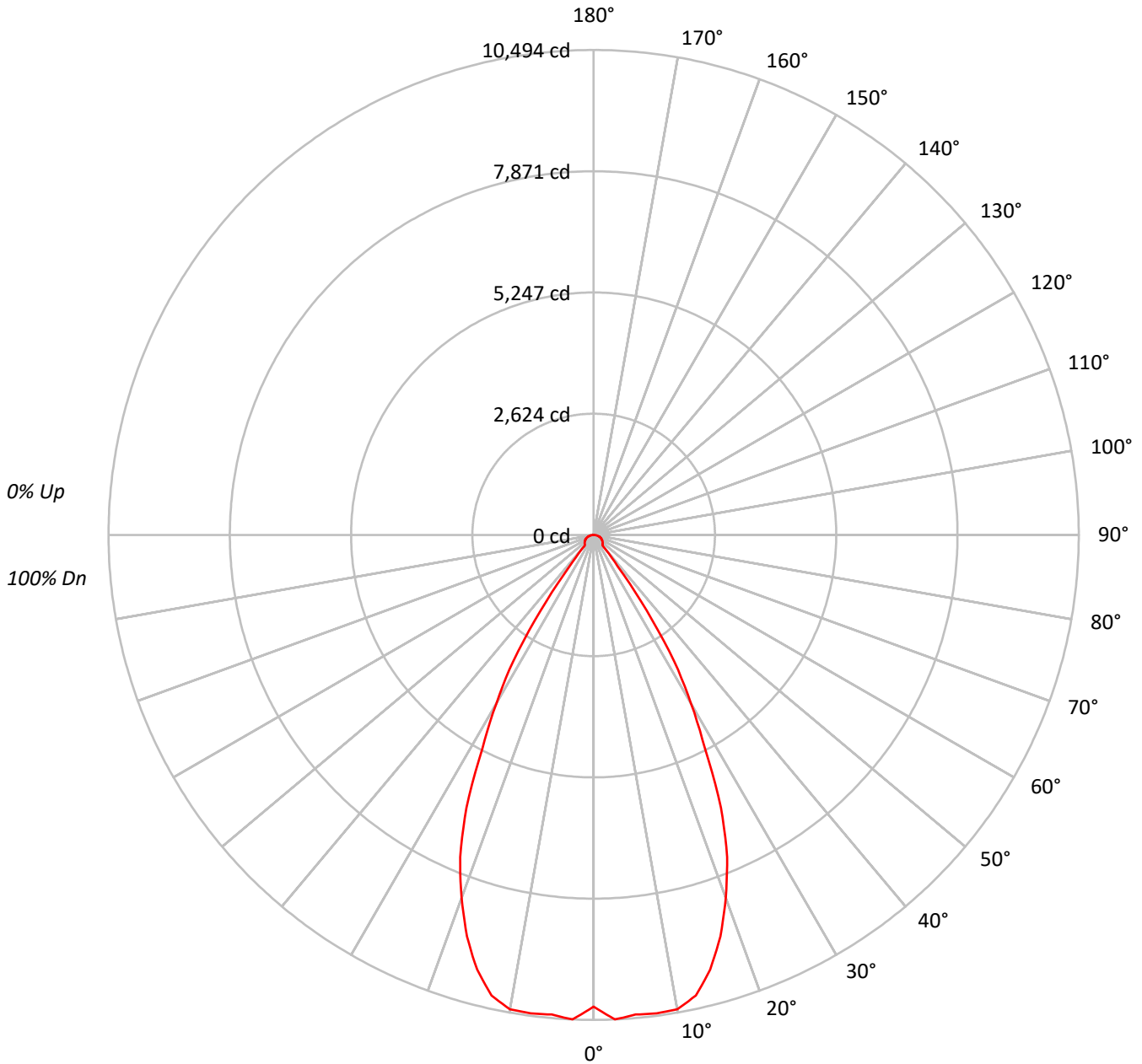
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755069
CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P755069

CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBDP1H

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	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1115214
5°	1142638
10°	1156437
15°	1101661
20°	971320
25°	785639
30°	531413
35°	266299
40°	43203
45°	42276
50°	43124
55°	43775
60°	44994
65°	46019
70°	47088
75°	47661
80°	45995
85°	38361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 47661 cd/sqm



TEST NUMBER: P755069

CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.7	11.6
10°-20°	2693.9	31.3
20°-30°	2898.5	33.7
30°-40°	1259.9	14.7
40°-50°	211.6	2.5
50°-60°	205.8	2.4
60°-70°	176.0	2.0
70°-80°	117.8	1.4
80°-90°	35.2	0.4
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°	6588.1	76.7
0°-40°	7848.0	91.3
0°-60°	8265.4	96.2
0°-90°	8594.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8594.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10207	
5°	10418	996
15°	9739	2694
25°	6517	2898
35°	1996	1260
45°	274	212
55°	230	206
65°	178	176
75°	113	118
85°	31	35
90°	0	



TEST NUMBER: P755069

CATALOG NUMBER: LD4D85BD010-EU4DR6070959040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	10206.9
2.5°	10493.8
5°	10418.1
7.5°	10442.0
10°	10423.4
12.5°	10208.2
15°	9739.3
17.5°	9109.7
20°	8353.8
22.5°	7544.9
25°	6516.8
27.5°	5212.4
30°	4212.1
32.5°	3246.4
35°	1996.5
37.5°	854.1
40°	302.9
42.5°	278.9
45°	273.6
47.5°	264.3
50°	253.7
52.5°	241.8
55°	229.8
57.5°	217.8
60°	205.9
62.5°	192.6
65°	178.0
67.5°	163.4
70°	147.4
72.5°	130.2
75°	112.9
77.5°	93.0
80°	73.1
82.5°	51.8
85°	30.6
87.5°	10.6
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)