

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: P755810

Luminaire Tested: LD4D90BD010-EU4DR6070959027-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755810
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: LD4D90BD010-EU4DR6070959027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8366.5 lumens
Efficiency: N/A
Efficacy: 84.6 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

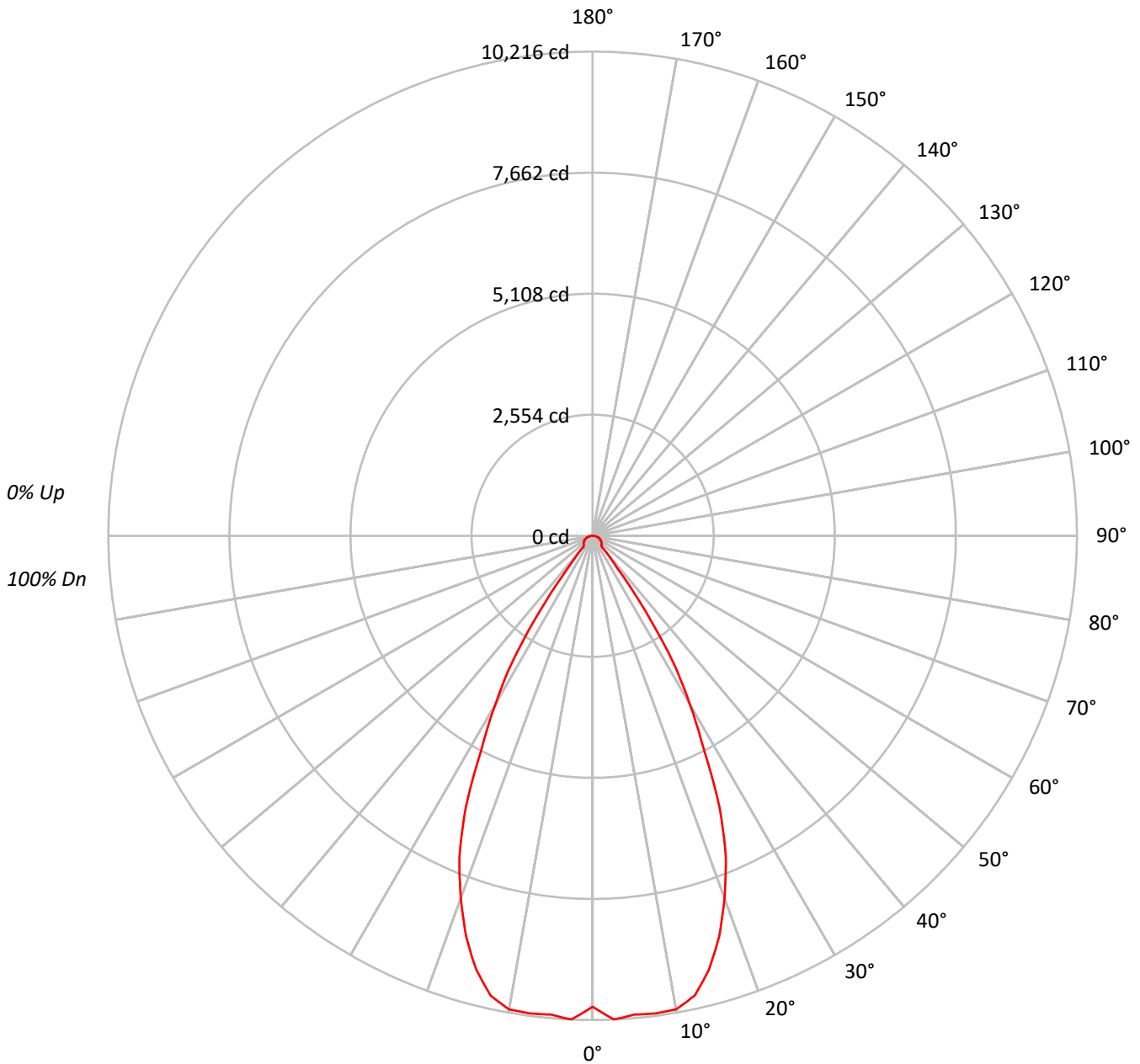
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755810
CATALOG NUMBER: LD4D90BD010-EU4DR6070959027-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P755810
 CATALOG NUMBER: LD4D90BD010-EU4DR6070959027-4LBDP1H

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°	1085648
5°	1112355
10°	1125783
15°	1072466
20°	945577
25°	764819
30°	517333
35°	259243
40°	42047
45°	41164
50°	41985
55°	42613
60°	43792
65°	44804
70°	45842
75°	46394
80°	44737
85°	37233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 46394 cd/sqm



TEST NUMBER: P755810

CATALOG NUMBER: LD4D90BD010-EU4DR6070959027-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.3	11.6
10°-20°	2622.5	31.3
20°-30°	2821.6	33.7
30°-40°	1226.5	14.7
40°-50°	206.0	2.5
50°-60°	200.3	2.4
60°-70°	171.3	2.0
70°-80°	114.6	1.4
80°-90°	34.3	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°	6413.5	76.7
0°-40°	7640.0	91.3
0°-60°	8046.3	96.2
0°-90°	8366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8366.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9936	
5°	10142	969
15°	9481	2623
25°	6344	2822
35°	1944	1227
45°	266	206
55°	224	200
65°	173	171
75°	110	115
85°	30	34
90°	0	



TEST NUMBER: P755810

CATALOG NUMBER: LD4D90BD010-EU4DR6070959027-4LBDP1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	9936.3
2.5°	10215.7
5°	10142.0
7.5°	10165.2
10°	10147.1
12.5°	9937.6
15°	9481.2
17.5°	8868.2
20°	8132.4
22.5°	7344.9
25°	6344.1
27.5°	5074.2
30°	4100.5
32.5°	3160.4
35°	1943.6
37.5°	831.5
40°	294.8
42.5°	271.6
45°	266.4
47.5°	257.3
50°	247.0
52.5°	235.3
55°	223.7
57.5°	212.1
60°	200.4
62.5°	187.5
65°	173.3
67.5°	159.1
70°	143.5
72.5°	126.7
75°	109.9
77.5°	90.5
80°	71.1
82.5°	50.4
85°	29.7
87.5°	10.3
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)