

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: P755823

Luminaire Tested: LD4D90BD010-EU4DR6070959030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755823
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-EU4DR6070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8619.5 lumens
Efficiency: N/A
Efficacy: 87.2 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 (Ain): 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

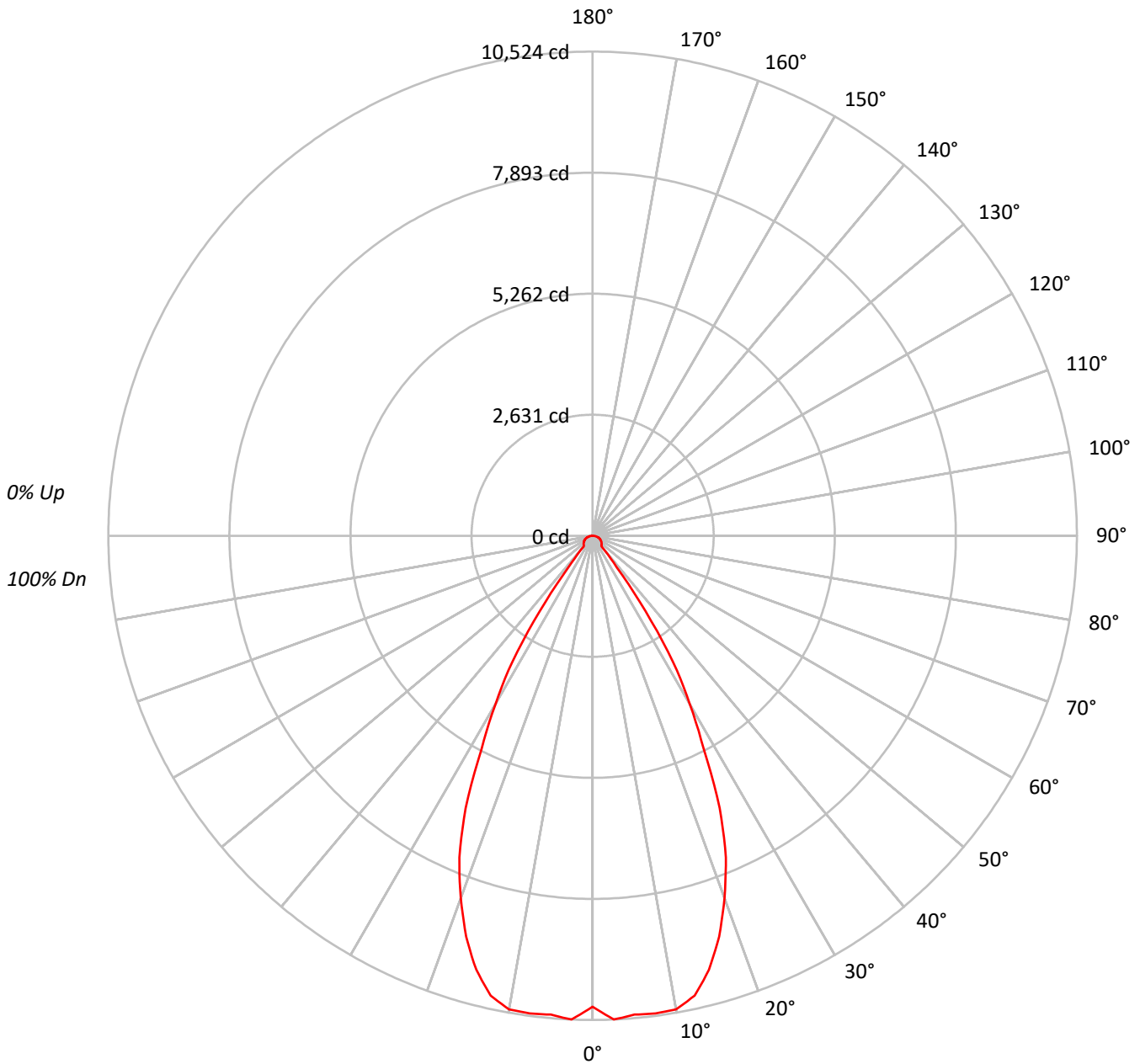


Downlight

TEST NUMBER: P755823

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P755823

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBDP1H

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			100																
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1118459
5°	1145961
10°	1159810
15°	1104874
20°	974157
25°	787929
30°	532965
35°	267072
40°	43317
45°	42400
50°	43260
55°	43908
60°	45125
65°	46148
70°	47248
75°	47788
80°	46121
85°	38361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 47788 cd/sqm



TEST NUMBER: P755823

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.6	11.6
10°-20°	2701.8	31.3
20°-30°	2906.9	33.7
30°-40°	1263.6	14.7
40°-50°	212.2	2.5
50°-60°	206.4	2.4
60°-70°	176.5	2.0
70°-80°	118.1	1.4
80°-90°	35.3	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°	6607.3	76.7
0°-40°	7870.9	91.3
0°-60°	8289.5	96.2
0°-90°	8619.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8619.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10237	
5°	10448	999
15°	9768	2702
25°	6536	2907
35°	2002	1264
45°	274	212
55°	230	206
65°	178	177
75°	113	118
85°	31	35
90°	0	



TEST NUMBER: P755823

CATALOG NUMBER: LD4D90BD010-EU4DR6070959030-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	10236.6
2.5°	10524.4
5°	10448.4
7.5°	10472.4
10°	10453.8
12.5°	10238.0
15°	9767.7
17.5°	9136.2
20°	8378.2
22.5°	7566.9
25°	6535.8
27.5°	5227.5
30°	4224.4
32.5°	3255.9
35°	2002.3
37.5°	856.6
40°	303.7
42.5°	279.8
45°	274.4
47.5°	265.1
50°	254.5
52.5°	242.5
55°	230.5
57.5°	218.5
60°	206.5
62.5°	193.2
65°	178.5
67.5°	163.9
70°	147.9
72.5°	130.6
75°	113.2
77.5°	93.3
80°	73.3
82.5°	52.0
85°	30.6
87.5°	10.7
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)