

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: P750457

Luminaire Tested: LD4D55D010-EU4DR6555659035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P750457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR6555659035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4735.1 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

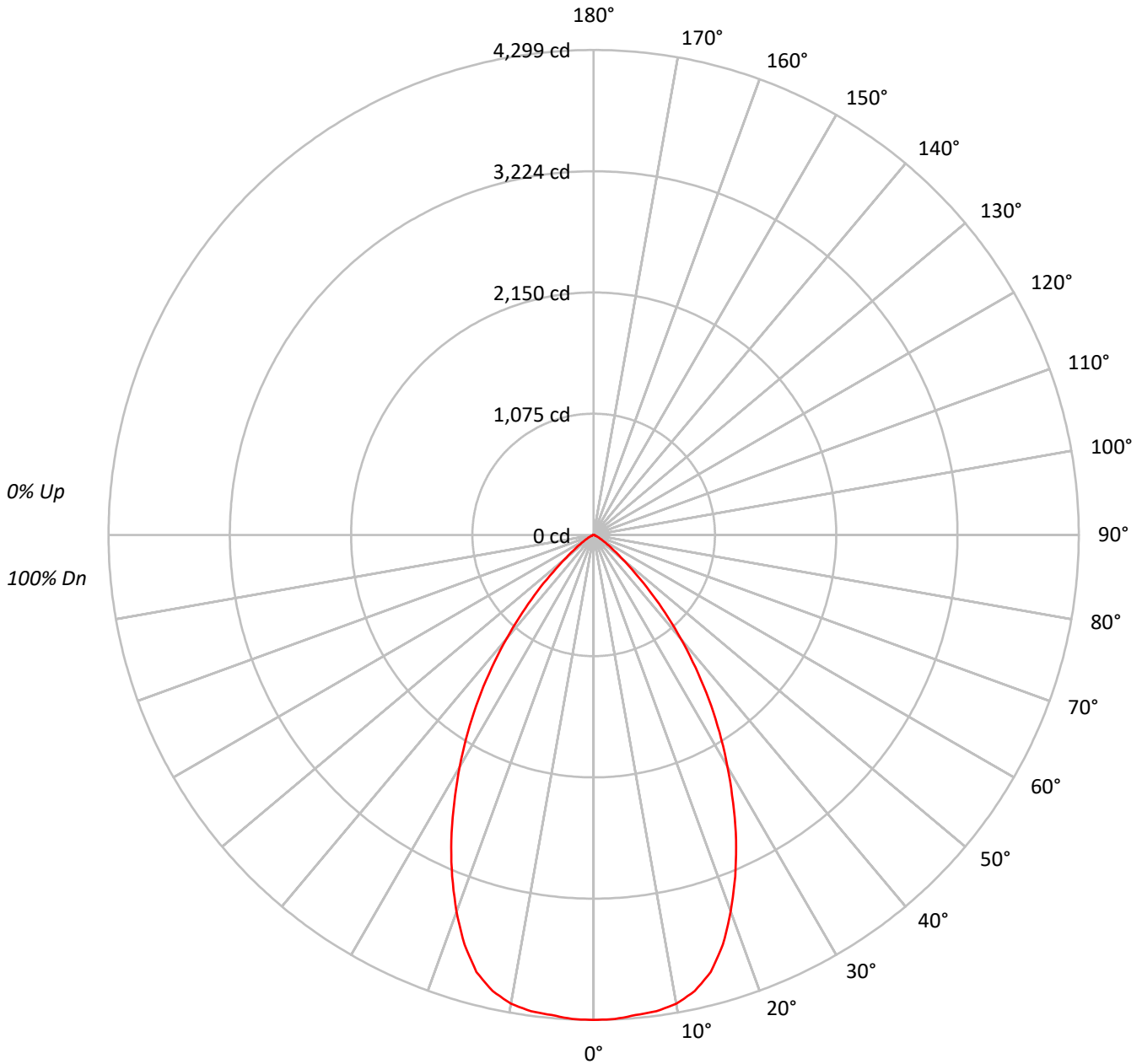
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P750457
CATALOG NUMBER: LD4D55D010-EU4DR6555659035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P750457
 CATALOG NUMBER: LD4D55D010-EU4DR6555659035-4LBS1B

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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251096
5°	250460
10°	250249
15°	242534
20°	220795
25°	192410
30°	160033
35°	126803
40°	91520
45°	57817
50°	30138
55°	16017
60°	8410
65°	4630
70°	1947
75°	2144
80°	1480
85°	1273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 57817 cd/sqm



TEST NUMBER: P750457

CATALOG NUMBER: LD4D55D010-EU4DR6555659035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	8.6
10°-20°	1113.4	23.5
20°-30°	1360.9	28.7
30°-40°	1104.2	23.3
40°-50°	550.2	11.6
50°-60°	153.5	3.2
60°-70°	34.9	0.7
70°-80°	9.1	0.2
80°-90°	2.3	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°	2880.9	60.8
0°-40°	3985.1	84.2
0°-60°	4688.8	99.0
0°-90°	4735.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4299	
5°	4272	407
15°	4011	1113
25°	2986	1361
35°	1778	1104
45°	700	550
55°	157	153
65°	34	35
75°	10	9
85°	2	2
90°	0	



TEST NUMBER: P750457

CATALOG NUMBER: LD4D55D010-EU4DR6555659035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4299.3
2.5°	4296.2
5°	4272.1
7.5°	4258.2
10°	4219.7
12.5°	4141.4
15°	4011.2
17.5°	3807.8
20°	3552.5
22.5°	3277.1
25°	2985.8
27.5°	2674.4
30°	2373.0
32.5°	2075.4
35°	1778.5
37.5°	1482.2
40°	1200.4
42.5°	936.3
45°	700.0
47.5°	487.7
50°	331.7
52.5°	228.7
55°	157.3
57.5°	106.1
60°	72.0
62.5°	49.9
65°	33.5
67.5°	17.1
70°	11.4
72.5°	10.7
75°	9.5
77.5°	6.3
80°	4.4
82.5°	3.2
85°	1.9
87.5°	1.3
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)