

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: P750545

Luminaire Tested: LD4D55D010-EU4DR7055659040-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR7055659040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5842.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

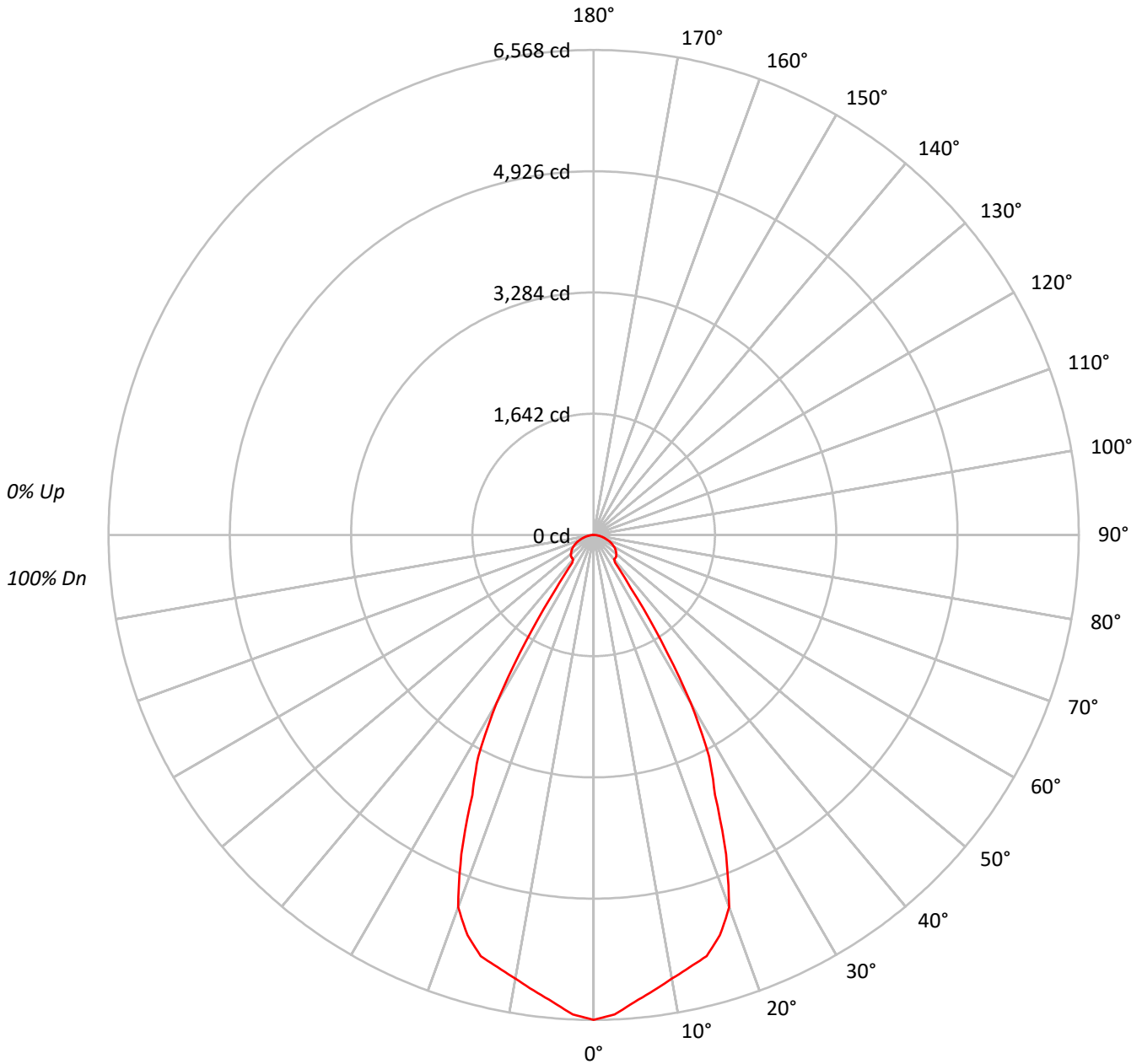
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P750545
CATALOG NUMBER: LD4D55D010-EU4DR7055659040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P750545

CATALOG NUMBER: LD4D55D010-EU4DR7055659040-4LBDP1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	717646
5°	696324
10°	676917
15°	668035
20°	623804
25°	468637
30°	331280
35°	117350
40°	61702
45°	65717
50°	68060
55°	69338
60°	69774
65°	68279
70°	64434
75°	59692
80°	52979
85°	42999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 69790 cd/sqm



TEST NUMBER: P750545

CATALOG NUMBER: LD4D55D010-EU4DR7055659040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.8	10.3
10°-20°	1642.6	28.1
20°-30°	1809.0	31.0
30°-40°	691.2	11.8
40°-50°	326.4	5.6
50°-60°	324.5	5.6
60°-70°	259.7	4.4
70°-80°	149.3	2.6
80°-90°	40.6	0.7
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°	4050.4	69.3
0°-40°	4741.6	81.2
0°-60°	5392.5	92.3
0°-90°	5842.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5842.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6568	
5°	6349	599
15°	5906	1643
25°	3887	1809
35°	880	691
45°	425	326
55°	364	324
65°	264	260
75°	141	149
85°	34	41
90°	0	



TEST NUMBER: P750545

CATALOG NUMBER: LD4D55D010-EU4DR7055659040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	6568.2
2.5°	6499.6
5°	6348.8
7.5°	6223.0
10°	6101.3
12.5°	5998.3
15°	5905.8
17.5°	5682.2
20°	5365.0
22.5°	4680.7
25°	3887.3
27.5°	3383.9
30°	2625.8
32.5°	1696.1
35°	879.8
37.5°	475.3
40°	432.6
42.5°	429.5
45°	425.3
47.5°	416.0
50°	400.4
52.5°	382.7
55°	364.0
57.5°	343.2
60°	319.3
62.5°	292.2
65°	264.1
67.5°	232.9
70°	201.7
72.5°	170.5
75°	141.4
77.5°	111.3
80°	84.2
82.5°	59.3
85°	34.3
87.5°	13.5
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)