

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: P750070

Luminaire Tested: LD4D55D010-EU4DR4055659035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR4055659035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5772.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

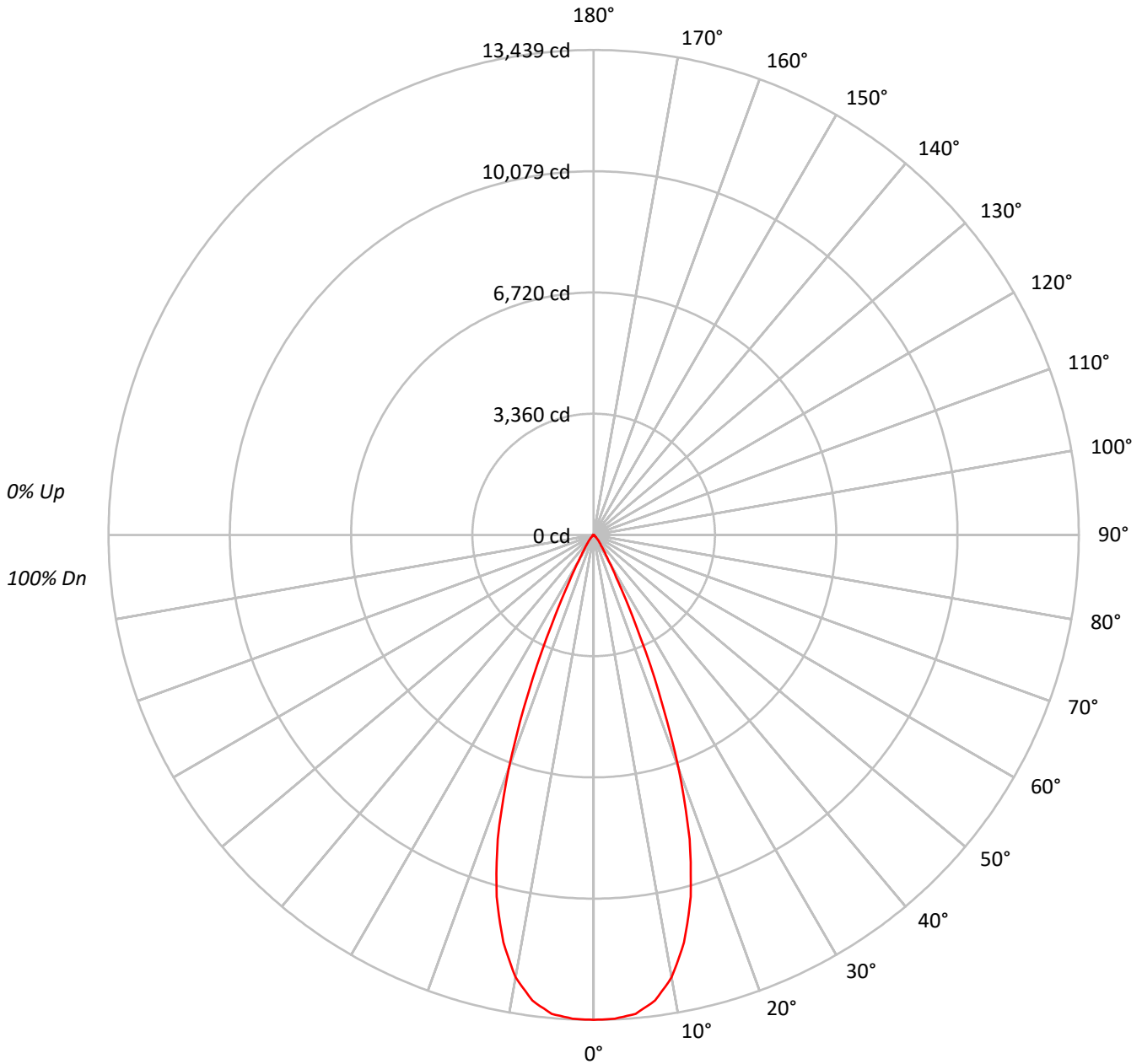
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P750070
CATALOG NUMBER: LD4D55D010-EU4DR4055659035-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P750070

CATALOG NUMBER: LD4D55D010-EU4DR4055659035-4LBS1MW

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			96	
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92	
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			88	
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84	
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81	
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			77	
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			74	
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			72	
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			69	
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			67	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1468312
5°	1461176
10°	1381137
15°	1174134
20°	800260
25°	333904
30°	104993
35°	48791
40°	26986
45°	12377
50°	6000
55°	3295
60°	1726
65°	620
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12377 cd/sqm



TEST NUMBER: P750070

CATALOG NUMBER: LD4D55D010-EU4DR4055659035-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1244.0	21.6
10°-20°	2786.9	48.3
20°-30°	1395.0	24.2
30°-40°	255.7	4.4
40°-50°	70.5	1.2
50°-60°	16.6	0.3
60°-70°	3.2	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	5425.8	94.0
0°-40°	5681.5	98.4
0°-60°	5768.7	99.9
0°-90°	5772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13439	
5°	13322	###
15°	10380	2787
25°	2770	1395
35°	366	256
45°	80	71
55°	17	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P750070

CATALOG NUMBER: LD4D55D010-EU4DR4055659035-4LBS1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	13438.6
2.5°	13419.0
5°	13322.4
7.5°	13014.7
10°	12448.7
12.5°	11566.3
15°	10380.0
17.5°	8837.4
20°	6882.6
22.5°	4692.3
25°	2769.7
27.5°	1464.1
30°	832.2
32.5°	537.8
35°	365.8
37.5°	261.4
40°	189.2
42.5°	129.5
45°	80.1
47.5°	51.0
50°	35.3
52.5°	25.1
55°	17.3
57.5°	11.0
60°	7.9
62.5°	4.7
65°	2.4
67.5°	1.6
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)