

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: P750004

Luminaire Tested: LD4D55D010-EU4DR3555659040-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR3555659040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6110.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

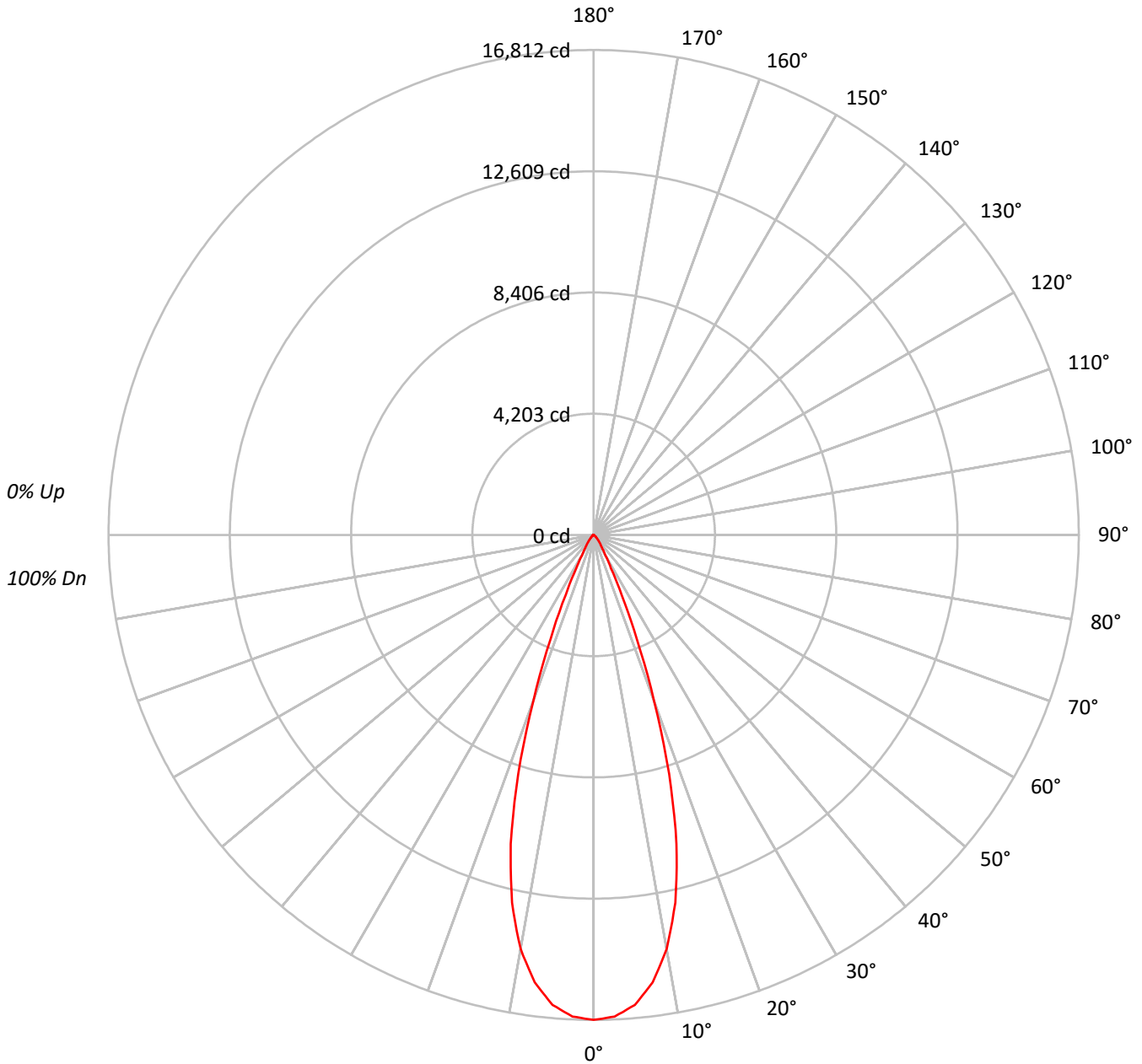
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P750004  
CATALOG NUMBER: LD4D55D010-EU4DR3555659040-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P750004

CATALOG NUMBER: LD4D55D010-EU4DR3555659040-4LBS1LI

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1836859
5°	1793698
10°	1616598
15°	1254740
20°	711671
25°	276869
30°	103290
35°	56621
40°	37012
45°	22529
50°	14329
55°	10134
60°	7408
65°	4033
70°	288
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22529 cd/sqm



TEST NUMBER: P750004

CATALOG NUMBER: LD4D55D010-EU4DR3555659040-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1504.1	24.6
10°-20°	2936.7	48.1
20°-30°	1197.7	19.6
30°-40°	286.6	4.7
40°-50°	119.5	2.0
50°-60°	49.4	0.8
60°-70°	15.5	0.3
70°-80°	0.4	0.0
80°-90°	0.2	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°	5638.4	92.3
0°-40°	5925.1	97.0
0°-60°	6093.9	99.7
0°-90°	6110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16812	
5°	16354	###
15°	11093	2937
25°	2297	1198
35°	424	287
45°	146	119
55°	53	49
65°	16	15
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P750004

CATALOG NUMBER: LD4D55D010-EU4DR3555659040-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	16811.7
2.5°	16710.9
5°	16354.2
7.5°	15642.8
10°	14571.0
12.5°	13061.9
15°	11092.6
17.5°	8684.1
20°	6120.7
22.5°	3902.9
25°	2296.6
27.5°	1298.2
30°	818.7
32.5°	574.8
35°	424.5
37.5°	328.2
40°	259.5
42.5°	199.9
45°	145.8
47.5°	109.1
50°	84.3
52.5°	66.9
55°	53.2
57.5°	43.1
60°	33.9
62.5°	24.8
65°	15.6
67.5°	5.5
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.9
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)