

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: P777924

Luminaire Tested: LERS4D10D010-EC4DR150210IC9030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D10D010-EC4DR150210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 997.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 11.7
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



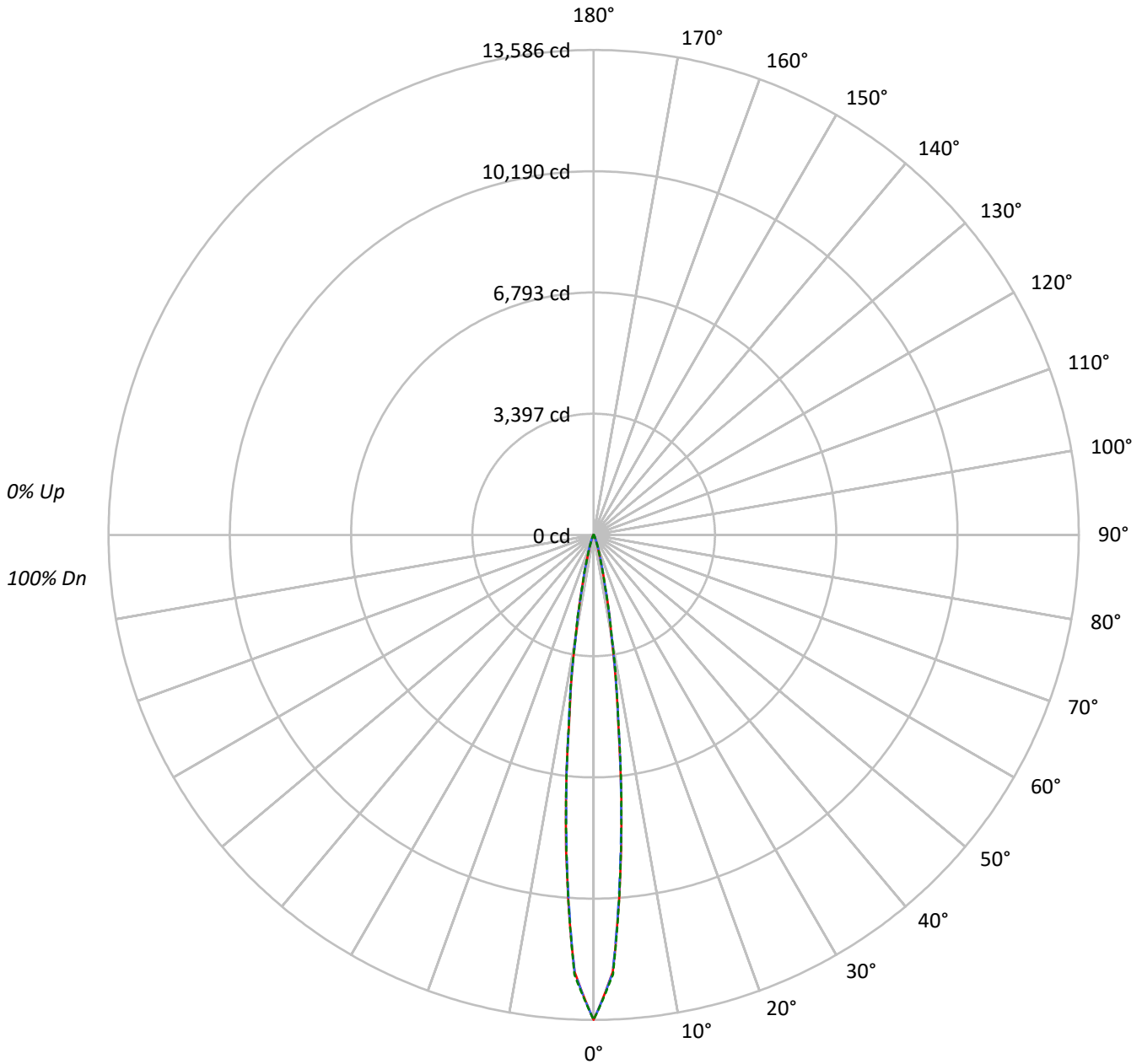
Downlight



TEST NUMBER: P777924

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P777924

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9030-4LBS1B

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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1528674	1528674	1528674
5°	898318	886692	893704
10°	268110	269986	274119
15°	66689	67992	65890
20°	19957	23107	20374
25°	7034	8959	7120
30°	2583	3400	2628
35°	1293	1460	1256
40°	817	902	817
45°	602	644	602
50°	480	480	480
55°	404	404	404
60°	323	323	323
65°	250	250	250
70°	212	212	212
75°	128	128	174
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 644 cd/sqm



TEST NUMBER: P777924

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.7	64.9
10°-20°	266.0	26.7
20°-30°	52.8	5.3
30°-40°	13.2	1.3
40°-50°	6.9	0.7
50°-60°	5.2	0.5
60°-70°	3.7	0.4
70°-80°	2.1	0.2
80°-90°	0.7	0.1
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
<hr/>		
0°-30°	965.6	96.8
0°-40°	978.8	98.1
0°-60°	990.9	99.4
0°-90°	997.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13586	13586	13586	13586	13586	
5°	8839	8748	8725	8785	8794	645
15°	768	782	783	769	759	263
25°	90	102	115	102	91	47
35°	18	19	20	19	17	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P777924

CATALOG NUMBER: LERS4D10D010-EC4DR150210IC9030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13585.8	13585.8	13585.8	13585.8	13585.8
2.5°	12255.0	12265.3	12269.3	12281.4	12326.3
5°	8839.2	8748.4	8724.8	8785.2	8793.8
7.5°	5236.0	5254.4	5321.7	5336.7	5282.6
10°	2873.4	2897.0	2893.5	2914.2	2937.8
12.5°	1469.5	1451.1	1445.3	1468.9	1436.1
15°	767.8	782.2	782.8	769.0	758.6
17.5°	412.9	429.6	457.2	434.8	400.3
20°	243.9	258.8	282.4	264.0	249.0
22.5°	150.7	162.8	179.4	165.1	153.0
25°	90.3	102.4	115.0	101.8	91.4
27.5°	53.5	63.8	71.9	63.3	52.9
30°	34.5	40.3	45.4	39.7	35.1
32.5°	24.2	26.5	28.8	26.5	24.2
35°	17.8	19.0	20.1	19.0	17.3
37.5°	13.8	15.0	15.5	14.4	13.2
40°	11.5	12.1	12.7	12.1	11.5
42.5°	9.8	10.4	10.4	10.4	9.8
45°	8.6	8.6	9.2	8.6	8.6
47.5°	7.5	7.5	8.1	7.5	7.5
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.3	6.3	6.3	6.3	6.3
55°	5.8	5.8	5.8	5.8	5.8
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)