

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: P778250

Luminaire Tested: LERS4D15D010-EC4DR1515309050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778250
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: LERS4D15D010-EC4DR1515309050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1607.0 lumens
Efficiency: N/A
Efficacy: 101.7 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): 15.8
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

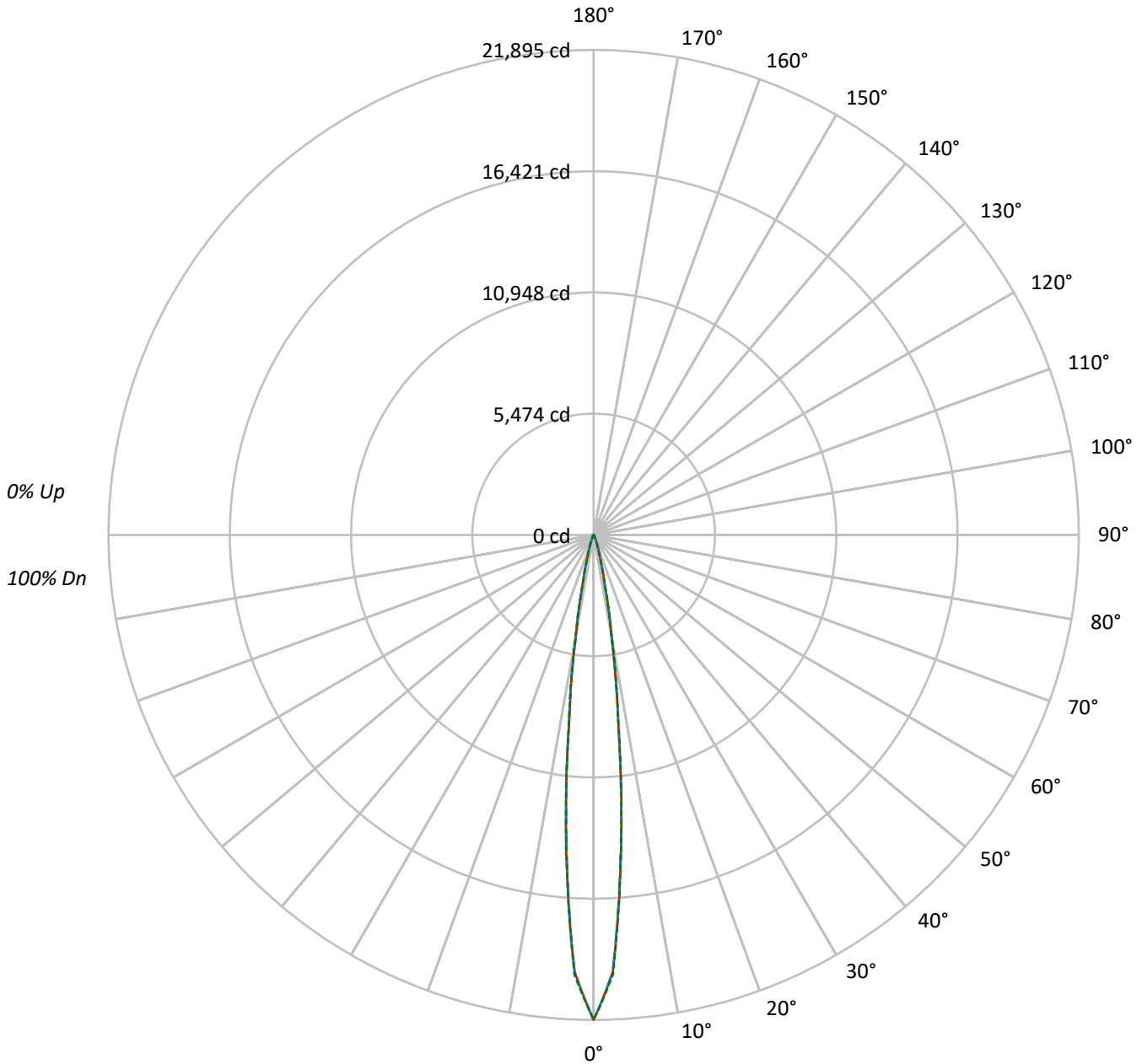


Downlight



TEST NUMBER: P778250
CATALOG NUMBER: LERS4D15D010-EC4DR1515309050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P778250

CATALOG NUMBER: LERS4D15D010-EC4DR1515309050-4LBS1LI

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	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	88	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°	2463658	2463658	2463658
5°	1447765	1429014	1440325
10°	432089	435121	441774
15°	107477	109570	106191
20°	32156	37238	32835
25°	11335	14443	11483
30°	4163	5481	4231
35°	2084	2353	2019
40°	1314	1449	1314
45°	973	1036	973
50°	772	772	772
55°	647	647	647
60°	520	520	520
65°	400	400	400
70°	336	336	336
75°	212	212	280
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1036 cd/sqm



TEST NUMBER: P778250

CATALOG NUMBER: LERS4D15D010-EC4DR1515309050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.3	64.9
10°-20°	428.7	26.7
20°-30°	85.2	5.3
30°-40°	21.2	1.3
40°-50°	11.2	0.7
50°-60°	8.3	0.5
60°-70°	5.9	0.4
70°-80°	3.3	0.2
80°-90°	1.0	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
0°-30°	1556.1	96.8
0°-40°	1577.4	98.2
0°-60°	1596.8	99.4
0°-90°	1607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21895	21895	21895	21895	21895	
5°	14246	14099	14061	14158	14172	1040
15°	1237	1261	1262	1239	1223	424
25°	146	165	185	164	147	76
35°	29	31	32	31	28	19
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P778250

CATALOG NUMBER: LERS4D15D010-EC4DR1515309050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21895.3	21895.3	21895.3	21895.3	21895.3
2.5°	19750.5	19767.1	19773.6	19793.1	19865.4
5°	14245.6	14099.1	14061.1	14158.4	14172.4
7.5°	8438.5	8468.2	8576.6	8600.7	8513.6
10°	4630.8	4668.8	4663.3	4696.6	4734.6
12.5°	2368.2	2338.6	2329.3	2367.3	2314.5
15°	1237.4	1260.6	1261.5	1239.3	1222.6
17.5°	665.5	692.4	736.9	700.7	645.1
20°	393.0	417.1	455.1	425.4	401.3
22.5°	242.8	262.3	289.2	266.0	246.6
25°	145.5	165.0	185.4	164.1	147.4
27.5°	86.2	102.9	115.9	102.0	85.3
30°	55.6	64.9	73.2	64.0	56.5
32.5°	38.9	42.6	46.3	42.6	38.9
35°	28.7	30.6	32.4	30.6	27.8
37.5°	22.2	24.1	25.0	23.2	21.3
40°	18.5	19.5	20.4	19.5	18.5
42.5°	15.8	16.7	16.7	16.7	15.8
45°	13.9	13.9	14.8	13.9	13.9
47.5°	12.0	12.0	13.0	12.0	12.0
50°	11.1	11.1	11.1	11.1	11.1
52.5°	10.2	10.2	10.2	10.2	10.2
55°	9.3	9.3	9.3	9.3	9.3
57.5°	8.3	8.3	8.3	8.3	8.3
60°	7.4	7.4	7.4	7.4	7.4
62.5°	6.5	6.5	6.5	6.5	6.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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)