

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: P777686

Luminaire Tested: LERS4D08D010-EC4DR300210IC9030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D08D010-EC4DR300210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 806.8 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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



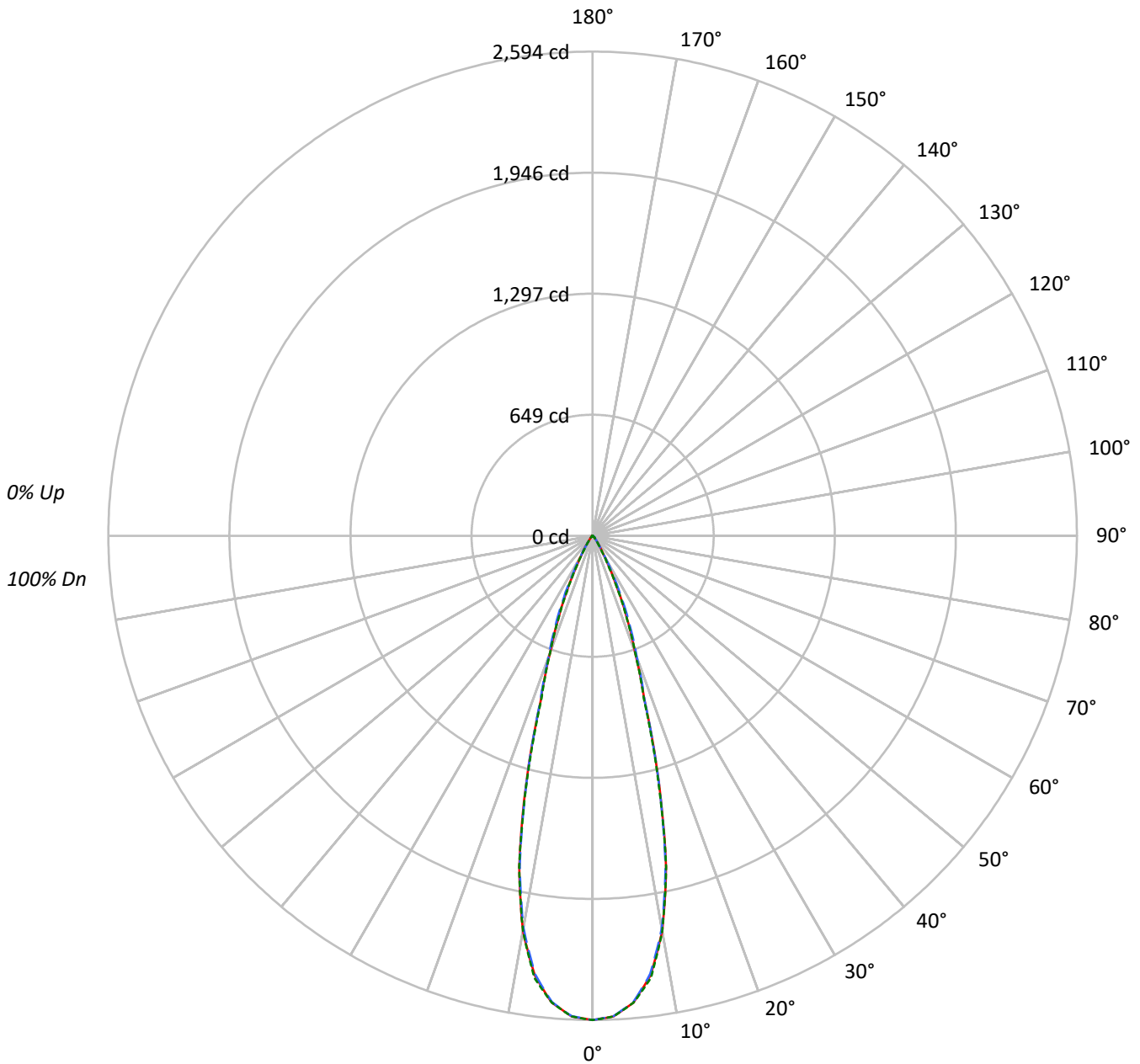
Downlight



TEST NUMBER: P777686

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P777686

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9030-4LBS1LI

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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	198584	198584	198584
5°	192881	192650	192889
10°	167060	165887	167022
15°	109000	108413	107866
20°	54201	56229	54127
25°	27305	30793	26747
30°	10933	11914	9528
35°	5074	4859	4065
40°	2188	2438	2058
45°	1548	1916	1559
50°	536	1393	560
55°	307	587	320
60°	214	260	214
65°	127	127	127
70°	90	45	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1916 cd/sqm



TEST NUMBER: P777686

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	28.3
10°-20°	367.4	45.5
20°-30°	158.8	19.7
30°-40°	36.2	4.5
40°-50°	12.4	1.5
50°-60°	3.0	0.4
60°-70°	0.8	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°	754.3	93.5
0°-40°	790.5	98.0
0°-60°	806.0	99.9
0°-90°	806.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2594	2594	2594	2594	2594	
5°	2510	2508	2507	2513	2510	228
15°	1376	1359	1368	1364	1361	368
25°	323	336	365	327	317	155
35°	54	55	52	52	44	37
45°	14	18	18	18	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P777686

CATALOG NUMBER: LERS4D08D010-EC4DR300210IC9030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2594.4	2594.4	2594.4	2594.4	2594.4
2.5°	2577.1	2575.4	2576.4	2577.6	2578.2
5°	2510.3	2507.9	2507.3	2512.6	2510.4
7.5°	2375.4	2372.0	2366.7	2378.6	2389.7
10°	2149.4	2145.6	2134.3	2139.9	2148.9
12.5°	1815.9	1803.5	1803.2	1821.1	1818.7
15°	1375.5	1358.9	1368.1	1363.7	1361.2
17.5°	925.0	918.6	930.9	927.1	911.2
20°	665.4	667.0	690.3	678.7	664.5
22.5°	485.6	491.5	519.2	489.0	477.9
25°	323.3	335.5	364.6	327.0	316.7
27.5°	198.8	204.4	233.9	196.3	190.7
30°	123.7	120.9	134.8	115.7	107.8
32.5°	81.1	77.6	82.0	73.6	67.3
35°	54.3	55.4	52.0	51.6	43.5
37.5°	33.9	39.0	34.4	36.7	28.0
40°	21.9	28.3	24.4	26.9	20.6
42.5°	17.9	21.8	20.0	21.3	18.3
45°	14.3	17.7	17.7	17.7	14.4
47.5°	7.9	11.9	15.2	12.1	8.4
50°	4.5	6.0	11.7	6.2	4.7
52.5°	3.0	3.4	8.0	3.6	3.2
55°	2.3	2.4	4.4	2.5	2.4
57.5°	1.8	1.9	2.3	1.9	1.8
60°	1.4	1.4	1.7	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.2	0.2	0.2	0.4
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)