

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P778010

Luminaire Tested: LERS4D10D010-EC4DR300210IC9050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778010
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: LERS4D10D010-EC4DR300210IC9050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1156.4 lumens
Efficiency: N/A
Efficacy: 98.8 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): 11.7
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



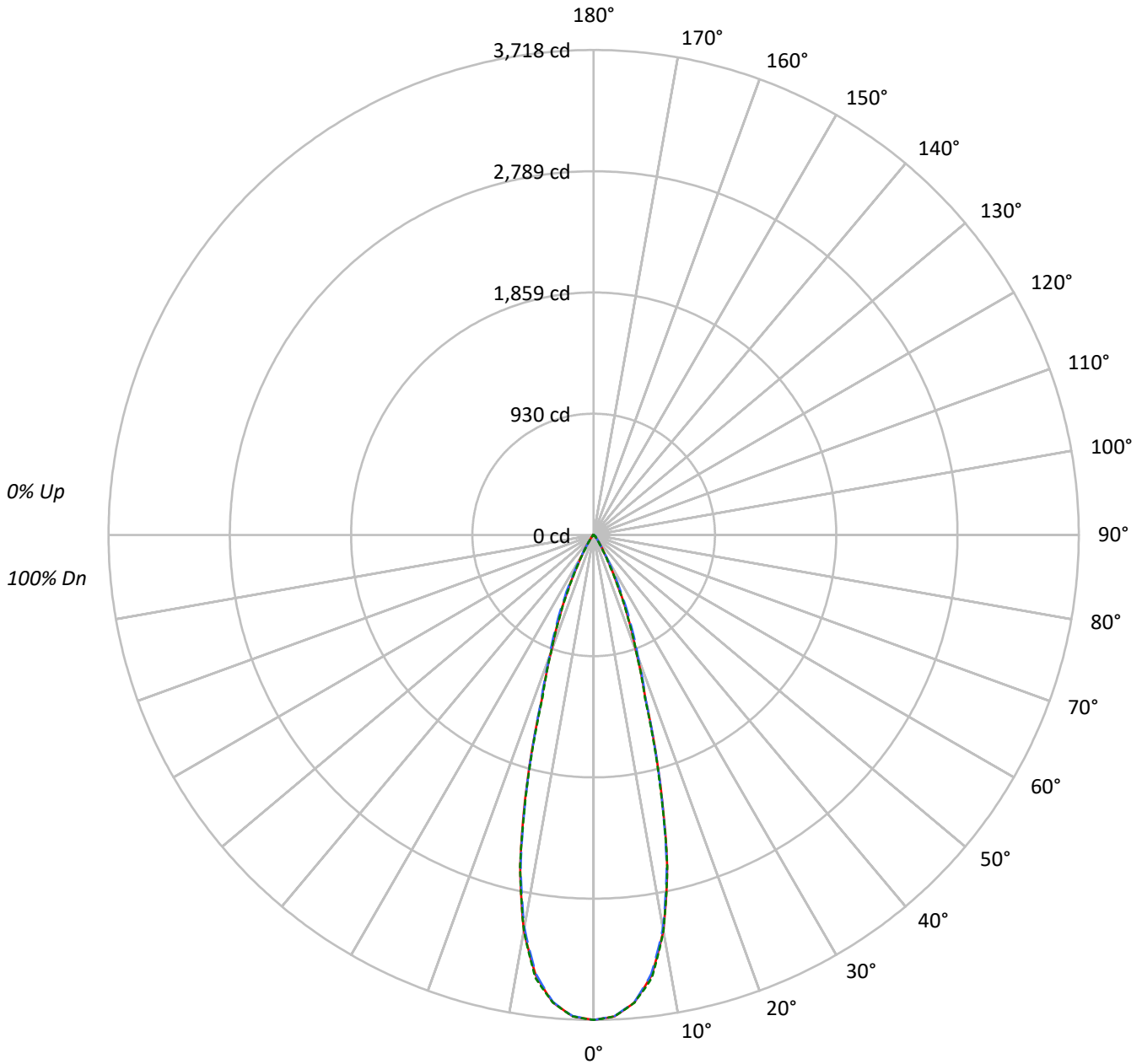
Downlight



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Luminous Intensity Polar Plot





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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	86	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°	284611	284611	284611
5°	276440	276117	276455
10°	239437	237751	239383
15°	156221	155381	154604
20°	77684	80592	77578
25°	39129	44128	38326
30°	15671	17067	13655
35°	7260	6961	5840
40°	3137	3487	2958
45°	2219	2750	2230
50°	762	2001	810
55°	440	827	467
60°	306	352	306
65°	199	199	199
70°	134	67	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.0	28.3
10°-20°	526.6	45.5
20°-30°	227.6	19.7
30°-40°	51.9	4.5
40°-50°	17.8	1.5
50°-60°	4.4	0.4
60°-70°	1.1	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°	1081.1	93.5
0°-40°	1133.0	98.0
0°-60°	1155.1	99.9
0°-90°	1156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3718	3718	3718	3718	3718	
5°	3598	3594	3594	3601	3598	327
15°	1971	1948	1961	1954	1951	528
25°	463	481	522	469	454	222
35°	78	79	74	74	62	53
45°	20	25	25	25	21	15
55°	3	4	6	4	4	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3718.3	3718.3	3718.3	3718.3	3718.3
2.5°	3693.6	3691.1	3692.6	3694.4	3695.1
5°	3597.8	3594.3	3593.6	3601.1	3598.0
7.5°	3404.5	3399.5	3392.1	3409.1	3424.9
10°	3080.6	3075.1	3058.9	3066.9	3079.9
12.5°	2602.5	2584.8	2584.5	2610.0	2606.5
15°	1971.4	1947.7	1960.8	1954.4	1951.0
17.5°	1325.8	1316.6	1334.1	1328.8	1306.0
20°	953.7	956.0	989.4	972.6	952.4
22.5°	695.9	704.5	744.1	700.8	685.0
25°	463.3	480.9	522.5	468.6	453.8
27.5°	285.0	293.0	335.2	281.3	273.3
30°	177.3	173.3	193.1	165.8	154.5
32.5°	116.3	111.2	117.6	105.5	96.4
35°	77.7	79.4	74.5	73.9	62.5
37.5°	48.6	55.9	49.3	52.6	40.2
40°	31.4	40.5	34.9	38.5	29.6
42.5°	25.7	31.2	28.6	30.5	26.3
45°	20.5	25.4	25.4	25.4	20.6
47.5°	11.3	17.0	21.7	17.4	12.0
50°	6.4	8.6	16.8	8.9	6.8
52.5°	4.4	4.9	11.5	5.1	4.6
55°	3.3	3.5	6.2	3.7	3.5
57.5°	2.6	2.8	3.3	2.8	2.6
60°	2.0	2.0	2.3	2.2	2.0
62.5°	1.4	1.4	1.7	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.7	0.7	0.7	0.7
70°	0.6	0.3	0.3	0.3	0.6
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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

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Scaled Data Report





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

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