

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: P777996

Luminaire Tested: LERS4D10D010-EC4DR300210IC9030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777996
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-EC4DR300210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 963.2 lumens
Efficiency: N/A
Efficacy: 82.3 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



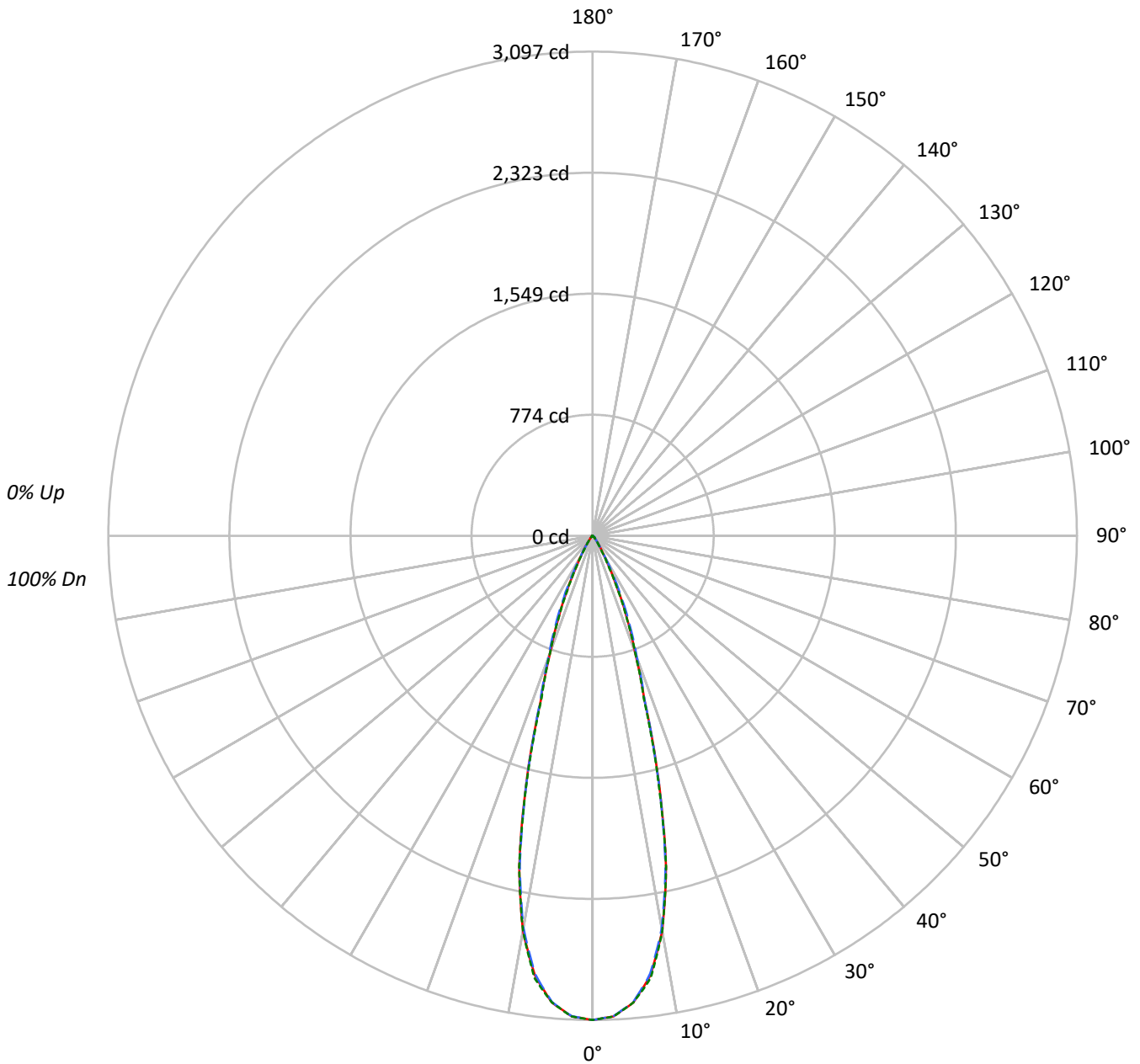
Downlight



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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°	237055	237055	237055
5°	230246	229985	230261
10°	199425	198026	199386
15°	130118	129421	128771
20°	64700	67128	64619
25°	32592	36755	31924
30°	13046	14221	11366
35°	6055	5803	4859
40°	2608	2898	2458
45°	1840	2284	1862
50°	631	1667	667
55°	374	694	387
60°	260	291	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	28.3
10°-20°	438.6	45.5
20°-30°	189.5	19.7
30°-40°	43.2	4.5
40°-50°	14.8	1.5
50°-60°	3.6	0.4
60°-70°	0.9	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°	900.5	93.5
0°-40°	943.7	98.0
0°-60°	962.1	99.9
0°-90°	963.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3097	3097	3097	3097	3097	
5°	2997	2994	2993	2999	2997	273
15°	1642	1622	1633	1628	1625	440
25°	386	400	435	390	378	185
35°	65	66	62	62	52	44
45°	17	21	21	21	17	12
55°	3	3	5	3	3	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°	3097.0	3097.0	3097.0	3097.0	3097.0
2.5°	3076.5	3074.3	3075.5	3077.1	3077.7
5°	2996.6	2993.7	2993.2	2999.4	2996.8
7.5°	2835.6	2831.5	2825.3	2839.4	2852.7
10°	2565.8	2561.3	2547.8	2554.4	2565.3
12.5°	2167.6	2152.9	2152.6	2173.9	2171.0
15°	1642.0	1622.3	1633.2	1627.9	1625.0
17.5°	1104.2	1096.6	1111.2	1106.8	1087.8
20°	794.3	796.3	824.1	810.2	793.3
22.5°	579.6	586.8	619.8	583.7	570.5
25°	385.9	400.5	435.2	390.3	378.0
27.5°	237.4	244.0	279.1	234.3	227.6
30°	147.6	144.3	160.9	138.1	128.6
32.5°	96.8	92.6	97.9	87.9	80.3
35°	64.8	66.1	62.1	61.6	52.0
37.5°	40.5	46.5	41.1	43.8	33.5
40°	26.1	33.7	29.0	32.1	24.6
42.5°	21.4	26.0	23.9	25.4	21.9
45°	17.0	21.1	21.1	21.1	17.2
47.5°	9.5	14.2	18.1	14.4	10.0
50°	5.3	7.2	14.0	7.4	5.6
52.5°	3.7	4.1	9.6	4.2	3.8
55°	2.8	2.9	5.2	3.0	2.9
57.5°	2.1	2.3	2.8	2.3	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.4	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
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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— 0°-180° - - 45°-225° - - - - 90°-270°

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