

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: P778323

Luminaire Tested: LERS4D15D010-EC4DR300215IC9050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778323
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: LERS4D15D010-EC4DR300215IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1406.7 lumens
Efficiency: N/A
Efficacy: 89.0 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): 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



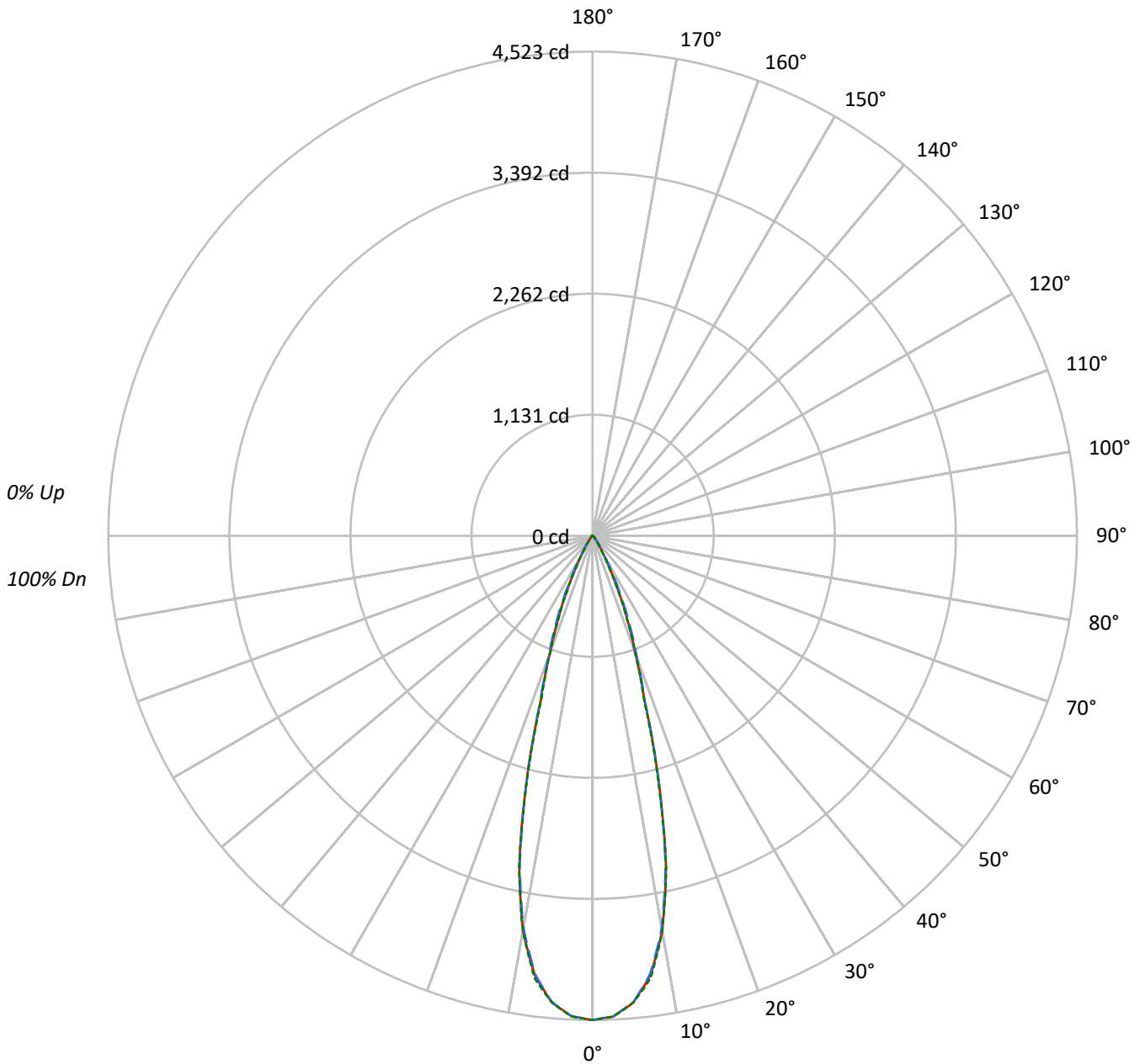
Downlight



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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	346221	346221	346221
5°	336279	335880	336295
10°	291264	289212	291201
15°	190034	189020	188069
20°	94497	98040	94375
25°	47600	53680	46628
30°	19065	20770	16607
35°	8840	8466	7102
40°	3817	4237	3597
45°	2695	3345	2717
50°	929	2441	976
55°	534	1014	560
60°	383	444	383
65°	235	235	235
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.7	28.3
10°-20°	640.6	45.5
20°-30°	276.8	19.7
30°-40°	63.1	4.5
40°-50°	21.7	1.5
50°-60°	5.3	0.4
60°-70°	1.4	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°	1315.1	93.5
0°-40°	1378.2	98.0
0°-60°	1405.2	99.9
0°-90°	1406.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4523	4523	4523	4523	4523	
5°	4377	4372	4371	4381	4377	398
15°	2398	2369	2385	2378	2373	642
25°	564	585	636	570	552	270
35°	95	97	91	90	76	64
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
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°	4523.2	4523.2	4523.2	4523.2	4523.2
2.5°	4493.1	4490.0	4491.8	4494.1	4494.9
5°	4376.6	4372.4	4371.4	4380.6	4376.8
7.5°	4141.4	4135.4	4126.3	4147.0	4166.3
10°	3747.4	3740.8	3721.0	3730.8	3746.6
12.5°	3165.8	3144.3	3143.8	3174.9	3170.7
15°	2398.1	2369.3	2385.3	2377.5	2373.3
17.5°	1612.7	1601.6	1622.9	1616.5	1588.7
20°	1160.1	1163.0	1203.6	1183.2	1158.6
22.5°	846.5	857.0	905.1	852.6	833.2
25°	563.6	584.9	635.6	570.0	552.1
27.5°	346.6	356.4	407.7	342.2	332.4
30°	215.7	210.7	235.0	201.6	187.9
32.5°	141.5	135.2	143.0	128.3	117.2
35°	94.6	96.6	90.6	90.0	76.0
37.5°	59.1	68.0	59.9	63.9	48.9
40°	38.2	49.3	42.4	46.9	36.0
42.5°	31.3	38.0	34.9	37.1	32.0
45°	24.9	30.9	30.9	30.9	25.1
47.5°	13.8	20.6	26.4	21.1	14.7
50°	7.8	10.4	20.5	10.9	8.2
52.5°	5.3	6.0	14.0	6.2	5.6
55°	4.0	4.2	7.6	4.5	4.2
57.5°	3.1	3.3	4.0	3.3	3.1
60°	2.5	2.5	2.9	2.7	2.5
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	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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