

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: P778231

Luminaire Tested: LERS4D15D010-EC4DR1515309024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778231
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-EC4DR1515309024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1183.2 lumens
Efficiency: N/A
Efficacy: 74.9 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

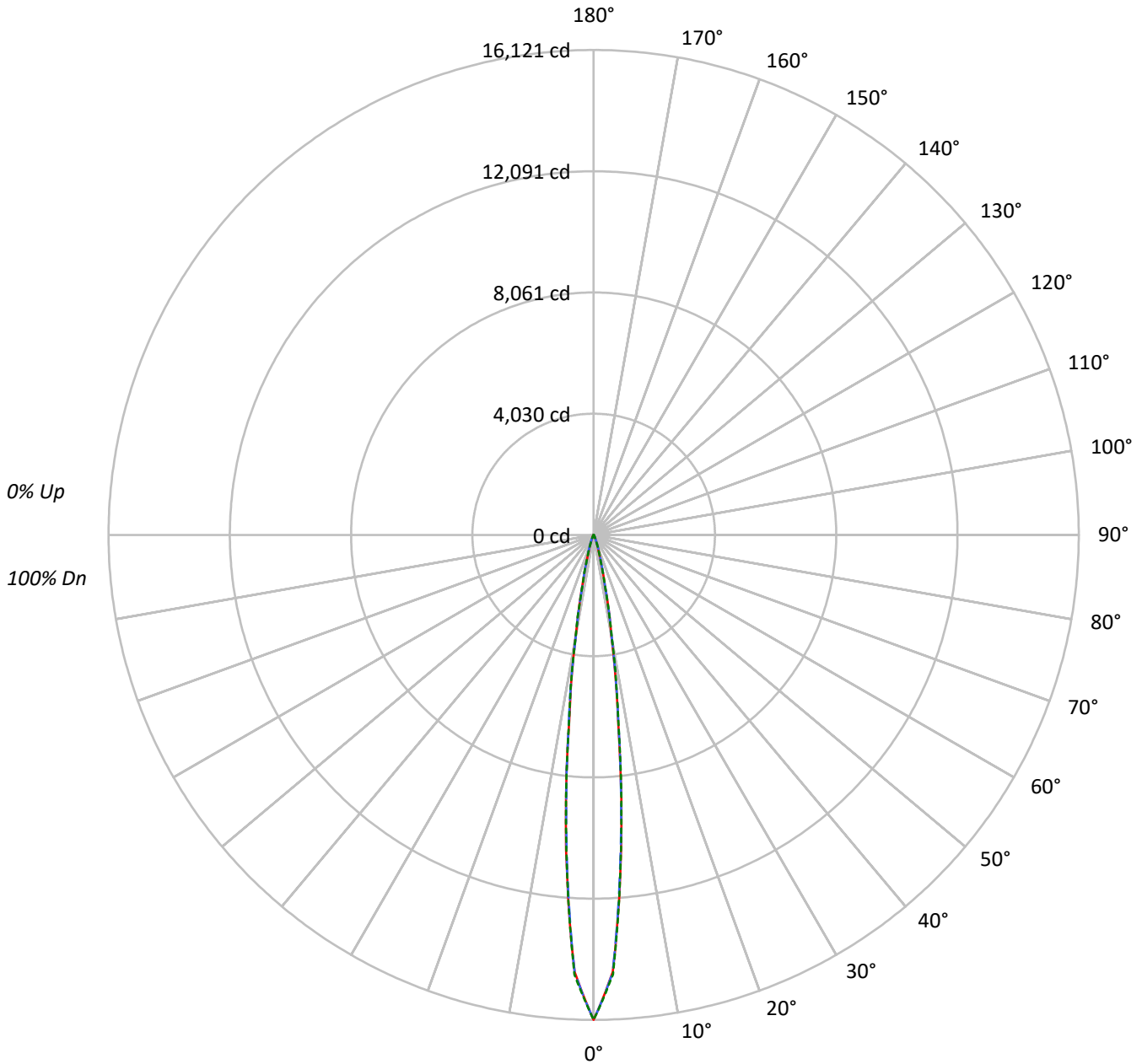


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1813934	1813934	1813934
5°	1065955	1052154	1060477
10°	318132	320362	325270
15°	79135	80673	78189
20°	23680	27419	24179
25°	8343	10633	8452
30°	3063	4036	3115
35°	1540	1736	1489
40°	966	1065	966
45°	714	763	714
50°	570	570	570
55°	473	473	473
60°	386	386	386
65°	293	293	293
70°	249	249	249
75°	151	151	204
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.4	64.9
10°-20°	315.6	26.7
20°-30°	62.7	5.3
30°-40°	15.6	1.3
40°-50°	8.2	0.7
50°-60°	6.1	0.5
60°-70°	4.3	0.4
70°-80°	2.4	0.2
80°-90°	0.8	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°	1145.7	96.8
0°-40°	1161.4	98.2
0°-60°	1175.7	99.4
0°-90°	1183.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16121	16121	16121	16121	16121	
5°	10489	10381	10353	10424	10435	766
15°	911	928	929	912	900	312
25°	107	122	136	121	108	56
35°	21	22	24	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16121.0	16121.0	16121.0	16121.0	16121.0
2.5°	14541.8	14554.1	14558.8	14573.2	14626.4
5°	10488.7	10380.8	10352.9	10424.5	10434.8
7.5°	6213.1	6234.9	6314.8	6332.5	6268.4
10°	3409.5	3437.5	3433.4	3458.0	3486.0
12.5°	1743.7	1721.8	1715.0	1743.0	1704.1
15°	911.1	928.1	928.8	912.4	900.2
17.5°	490.0	509.8	542.6	515.9	475.0
20°	289.4	307.1	335.1	313.2	295.5
22.5°	178.8	193.1	212.9	195.9	181.5
25°	107.1	121.5	136.5	120.8	108.5
27.5°	63.5	75.8	85.3	75.1	62.8
30°	40.9	47.8	53.9	47.1	41.6
32.5°	28.7	31.4	34.1	31.4	28.7
35°	21.2	22.5	23.9	22.5	20.5
37.5°	16.4	17.7	18.4	17.1	15.7
40°	13.6	14.3	15.0	14.3	13.6
42.5°	11.6	12.3	12.3	12.3	11.6
45°	10.2	10.2	10.9	10.2	10.2
47.5°	8.9	8.9	9.6	8.9	8.9
50°	8.2	8.2	8.2	8.2	8.2
52.5°	7.5	7.5	7.5	7.5	7.5
55°	6.8	6.8	6.8	6.8	6.8
57.5°	6.1	6.1	6.1	6.1	6.1
60°	5.5	5.5	5.5	5.5	5.5
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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