

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: P778243

Luminaire Tested: LERS4D15D010-EC4DR1515309035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778243
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-EC4DR1515309035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431.8 lumens
Efficiency: N/A
Efficacy: 90.6 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 (Ain): 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



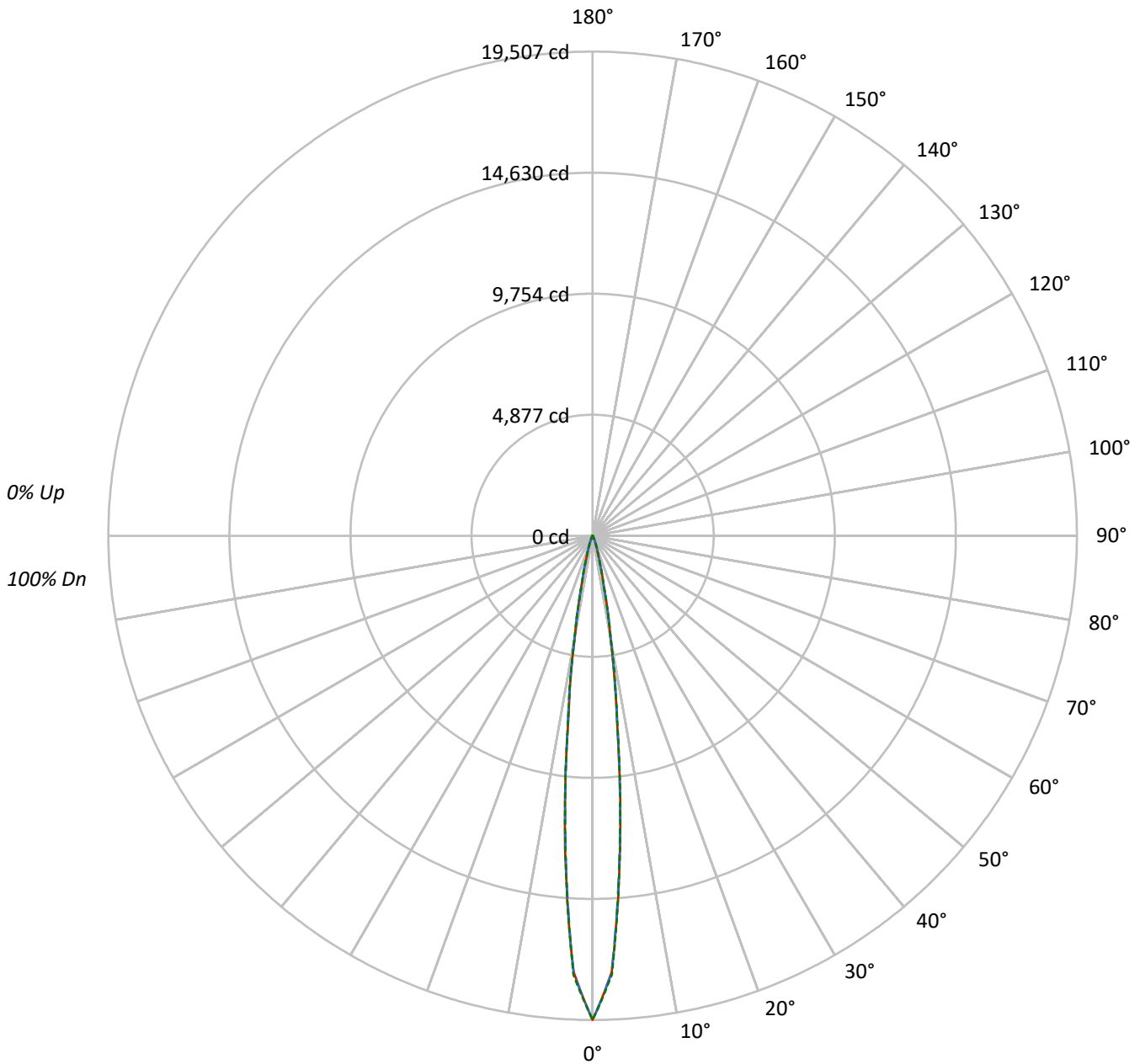
Downlight



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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	87	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°	2194927	2194927	2194927
5°	1289844	1273136	1283207
10°	384959	387656	393590
15°	95751	97618	94604
20°	28646	33179	29260
25°	10104	12869	10228
30°	3707	4882	3774
35°	1859	2099	1801
40°	1172	1292	1172
45°	868	924	868
50°	688	688	688
55°	578	578	578
60°	463	463	463
65°	357	357	357
70°	300	300	300
75°	189	189	249
80°	134	134	134
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 924 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.6	64.9
10°-20°	381.9	26.7
20°-30°	75.9	5.3
30°-40°	18.9	1.3
40°-50°	10.0	0.7
50°-60°	7.4	0.5
60°-70°	5.2	0.4
70°-80°	3.0	0.2
80°-90°	0.9	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°	1386.4	96.8
0°-40°	1405.3	98.2
0°-60°	1422.7	99.4
0°-90°	1431.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19507	19507	19507	19507	19507	
5°	12692	12561	12527	12614	12626	927
15°	1102	1123	1124	1104	1089	378
25°	130	147	165	146	131	68
35°	26	27	29	27	25	17
45°	12	12	13	12	12	10
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
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°	19507.0	19507.0	19507.0	19507.0	19507.0
2.5°	17596.1	17610.9	17616.7	17634.1	17698.5
5°	12691.7	12561.2	12527.3	12614.0	12626.4
7.5°	7518.1	7544.5	7641.1	7662.6	7584.9
10°	4125.7	4159.5	4154.6	4184.3	4218.2
12.5°	2109.9	2083.5	2075.2	2109.1	2062.0
15°	1102.4	1123.1	1123.9	1104.1	1089.2
17.5°	592.9	616.9	656.5	624.3	574.8
20°	350.1	371.6	405.5	379.0	357.6
22.5°	216.4	233.7	257.6	237.0	219.7
25°	129.7	147.0	165.2	146.2	131.3
27.5°	76.8	91.7	103.2	90.8	76.0
30°	49.5	57.8	65.2	57.0	50.4
32.5°	34.7	38.0	41.3	38.0	34.7
35°	25.6	27.3	28.9	27.3	24.8
37.5°	19.8	21.5	22.3	20.6	19.0
40°	16.5	17.3	18.2	17.3	16.5
42.5°	14.0	14.9	14.9	14.9	14.0
45°	12.4	12.4	13.2	12.4	12.4
47.5°	10.7	10.7	11.6	10.7	10.7
50°	9.9	9.9	9.9	9.9	9.9
52.5°	9.1	9.1	9.1	9.1	9.1
55°	8.3	8.3	8.3	8.3	8.3
57.5°	7.4	7.4	7.4	7.4	7.4
60°	6.6	6.6	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.0	5.0	5.0	5.0	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.5	2.5	2.5	2.5	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8
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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