

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: P778247

Luminaire Tested: LERS4D15D010-EC4DR1515309040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778247
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-EC4DR1515309040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1471.2 lumens
Efficiency: N/A
Efficacy: 93.1 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



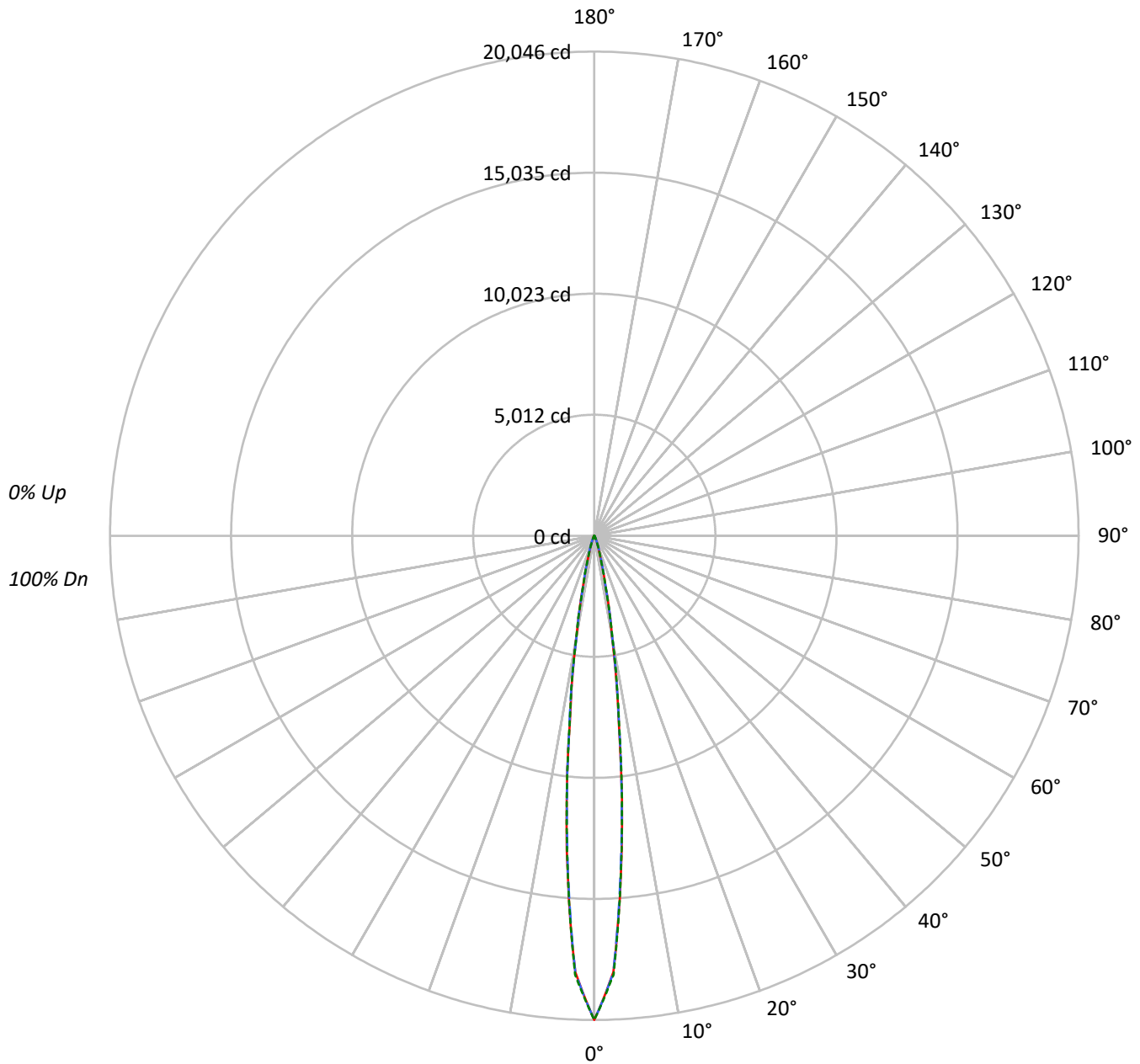
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111	113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105	111	108	106	104		105	103	102		102	101	100		100	98	98
3	110	106	103	101	108	105	102	100		103	100	99		100	99	97		98	97	96
4	108	103	100	98	106	102	99	97		100	98	96		99	97	95		97	95	94
5	106	101	98	95	104	100	97	95		99	96	94		97	95	93		96	94	92
6	104	99	95	93	102	98	95	93		97	94	92		96	93	92		95	93	91
7	102	97	94	91	101	96	93	91		95	93	91		94	92	90		93	91	90
8	100	95	92	90	99	95	92	90		94	91	89		93	91	89		92	90	89
9	99	93	90	88	98	93	90	88		92	90	88		92	89	88		91	89	88
10	97	92	89	87	96	92	89	87		91	89	87		91	88	87		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2255609	2255609	2255609
5°	1325505	1308340	1318696
10°	395606	398377	404470
15°	98400	100320	97219
20°	29440	34096	30070
25°	10376	13220	10509
30°	3811	5017	3879
35°	1910	2157	1852
40°	1207	1328	1207
45°	889	952	889
50°	709	709	709
55°	592	592	592
60°	477	477	477
65°	364	364	364
70°	307	307	307
75°	189	189	257
80°	134	134	134
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.2	64.9
10°-20°	392.5	26.7
20°-30°	78.0	5.3
30°-40°	19.5	1.3
40°-50°	10.2	0.7
50°-60°	7.6	0.5
60°-70°	5.3	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°	1424.7	96.8
0°-40°	1444.2	98.2
0°-60°	1462.0	99.4
0°-90°	1471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20046	20046	20046	20046	20046	
5°	13043	12908	12874	12963	12976	952
15°	1133	1154	1155	1135	1119	388
25°	133	151	170	150	135	70
35°	26	28	30	28	26	18
45°	13	13	14	13	13	10
55°	8	8	8	8	8	8
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°	20046.3	20046.3	20046.3	20046.3	20046.3
2.5°	18082.6	18097.9	18103.8	18121.6	18187.8
5°	13042.6	12908.5	12873.7	12962.8	12975.6
7.5°	7725.9	7753.1	7852.4	7874.4	7794.7
10°	4239.8	4274.5	4269.5	4300.0	4334.8
12.5°	2168.2	2141.1	2132.6	2167.4	2119.0
15°	1132.9	1154.1	1155.0	1134.6	1119.3
17.5°	609.3	633.9	674.7	641.6	590.6
20°	359.8	381.9	416.7	389.5	367.5
22.5°	222.3	240.2	264.8	243.6	225.7
25°	133.2	151.1	169.7	150.2	134.9
27.5°	78.9	94.2	106.1	93.3	78.1
30°	50.9	59.4	67.0	58.6	51.8
32.5°	35.6	39.0	42.4	39.0	35.6
35°	26.3	28.0	29.7	28.0	25.5
37.5°	20.4	22.1	22.9	21.2	19.5
40°	17.0	17.8	18.7	17.8	17.0
42.5°	14.4	15.3	15.3	15.3	14.4
45°	12.7	12.7	13.6	12.7	12.7
47.5°	11.0	11.0	11.9	11.0	11.0
50°	10.2	10.2	10.2	10.2	10.2
52.5°	9.3	9.3	9.3	9.3	9.3
55°	8.5	8.5	8.5	8.5	8.5
57.5°	7.6	7.6	7.6	7.6	7.6
60°	6.8	6.8	6.8	6.8	6.8
62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.1	5.1	5.1	5.1	5.1
67.5°	5.1	5.1	5.1	5.1	5.1
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.5	2.5	2.5	2.5	3.4
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)