

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: P742918

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742918
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: LD4D15D010-EU4DR1515309035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1503.3 lumens
Efficiency: N/A
Efficacy: 95.1 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

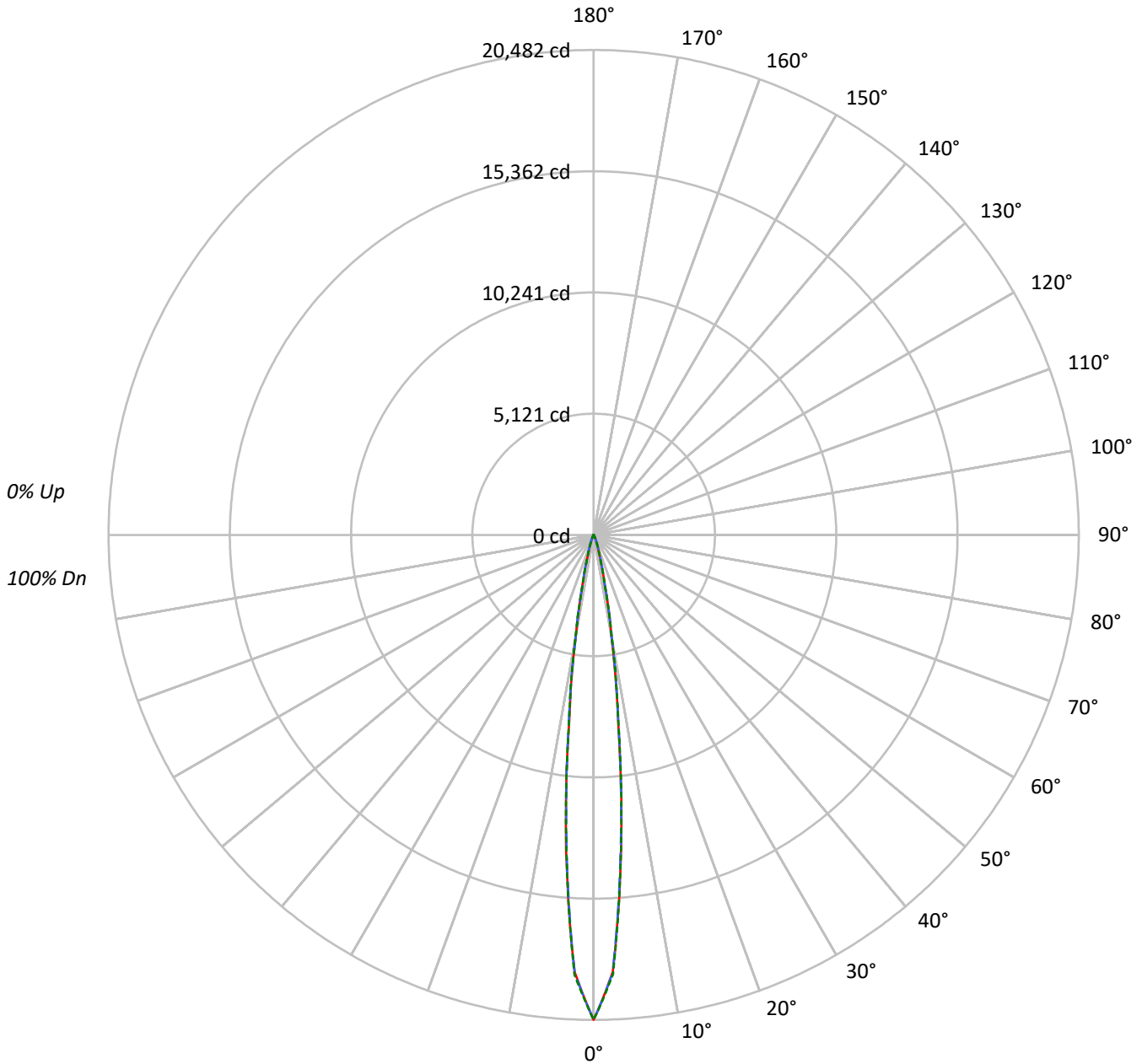


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	2304679	2304679	2304679
5°	1354337	1336806	1347376
10°	404208	407036	413269
15°	100545	102500	99338
20°	30078	34832	30724
25°	10602	13508	10743
30°	3894	5129	3961
35°	1953	2200	1888
40°	1229	1356	1229
45°	910	973	910
50°	723	723	723
55°	606	606	606
60°	484	484	484
65°	371	371	371
70°	314	314	314
75°	197	197	265
80°	134	134	134
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.0	64.9
10°-20°	401.0	26.7
20°-30°	79.7	5.3
30°-40°	19.9	1.3
40°-50°	10.5	0.7
50°-60°	7.7	0.5
60°-70°	5.5	0.4
70°-80°	3.1	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°	1455.7	96.8
0°-40°	1475.6	98.2
0°-60°	1493.8	99.4
0°-90°	1503.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20482	20482	20482	20482	20482	
5°	13326	13189	13154	13245	13258	973
15°	1158	1179	1180	1159	1144	397
25°	136	154	173	154	138	71
35°	27	29	30	29	26	18
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	5
75°	3	3	3	3	4	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°	20482.4	20482.4	20482.4	20482.4	20482.4
2.5°	18476.0	18491.6	18497.6	18515.9	18583.5
5°	13326.3	13189.3	13153.8	13244.8	13257.8
7.5°	7894.0	7921.7	8023.2	8045.7	7964.2
10°	4332.0	4367.5	4362.3	4393.5	4429.1
12.5°	2215.4	2187.7	2179.0	2214.5	2165.1
15°	1157.6	1179.2	1180.1	1159.3	1143.7
17.5°	622.6	647.7	689.3	655.5	603.5
20°	367.6	390.2	425.7	398.0	375.5
22.5°	227.2	245.4	270.5	248.9	230.6
25°	136.1	154.3	173.4	153.5	137.9
27.5°	80.6	96.2	108.4	95.4	79.8
30°	52.0	60.7	68.5	59.8	52.9
32.5°	36.4	39.9	43.4	39.9	36.4
35°	26.9	28.6	30.3	28.6	26.0
37.5°	20.8	22.5	23.4	21.7	19.9
40°	17.3	18.2	19.1	18.2	17.3
42.5°	14.7	15.6	15.6	15.6	14.7
45°	13.0	13.0	13.9	13.0	13.0
47.5°	11.3	11.3	12.1	11.3	11.3
50°	10.4	10.4	10.4	10.4	10.4
52.5°	9.5	9.5	9.5	9.5	9.5
55°	8.7	8.7	8.7	8.7	8.7
57.5°	7.8	7.8	7.8	7.8	7.8
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.2	5.2	5.2	5.2	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.6	2.6	2.6	2.6	3.5
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9
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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