

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: P742922

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742922
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-EU4DR1515309035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 1582.4 lumens
Efficiency: N/A
Efficacy: 100.2 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

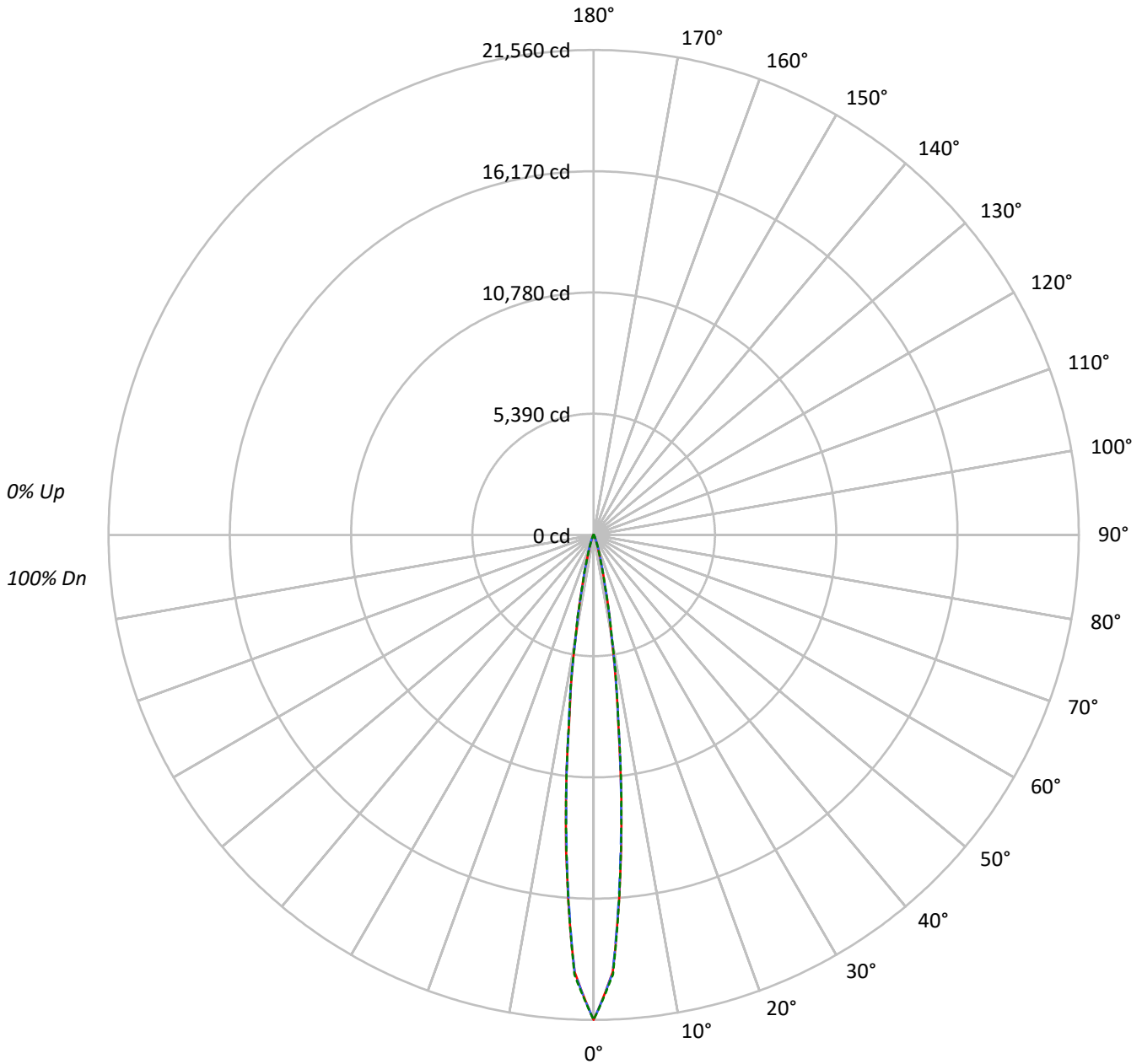


Downlight



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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°	2425975	2425975	2425975
5°	1425620	1407164	1418292
10°	425483	428459	435019
15°	105835	107894	104567
20°	31665	36665	32336
25°	11163	14217	11303
30°	4103	5399	4171
35°	2055	2317	1990
40°	1300	1427	1300
45°	959	1022	959
50°	765	765	765
55°	633	633	633
60°	513	513	513
65°	393	393	393
70°	336	336	336
75°	204	204	280
80°	142	142	142
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.3	64.9
10°-20°	422.2	26.7
20°-30°	83.9	5.3
30°-40°	20.9	1.3
40°-50°	11.0	0.7
50°-60°	8.1	0.5
60°-70°	5.8	0.4
70°-80°	3.3	0.2
80°-90°	1.0	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°	1532.3	96.8
0°-40°	1553.2	98.2
0°-60°	1572.4	99.4
0°-90°	1582.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21560	21560	21560	21560	21560	
5°	14028	13884	13846	13942	13956	1024
15°	1218	1241	1242	1220	1204	418
25°	143	162	182	162	145	75
35°	28	30	32	30	27	19
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
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°	21560.4	21560.4	21560.4	21560.4	21560.4
2.5°	19448.4	19464.8	19471.2	19490.4	19561.6
5°	14027.7	13883.5	13846.1	13941.9	13955.6
7.5°	8309.5	8338.7	8445.5	8469.2	8383.4
10°	4560.0	4597.4	4591.9	4624.8	4662.2
12.5°	2332.0	2302.8	2293.7	2331.1	2279.1
15°	1218.5	1241.3	1242.2	1220.3	1203.9
17.5°	655.3	681.8	725.6	690.0	635.3
20°	387.0	410.7	448.1	418.9	395.2
22.5°	239.1	258.3	284.8	262.0	242.8
25°	143.3	162.5	182.5	161.6	145.1
27.5°	84.9	101.3	114.1	100.4	84.0
30°	54.8	63.9	72.1	63.0	55.7
32.5°	38.3	42.0	45.6	42.0	38.3
35°	28.3	30.1	31.9	30.1	27.4
37.5°	21.9	23.7	24.6	22.8	21.0
40°	18.3	19.2	20.1	19.2	18.3
42.5°	15.5	16.4	16.4	16.4	15.5
45°	13.7	13.7	14.6	13.7	13.7
47.5°	11.9	11.9	12.8	11.9	11.9
50°	11.0	11.0	11.0	11.0	11.0
52.5°	10.0	10.0	10.0	10.0	10.0
55°	9.1	9.1	9.1	9.1	9.1
57.5°	8.2	8.2	8.2	8.2	8.2
60°	7.3	7.3	7.3	7.3	7.3
62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.7	2.7	2.7	2.7	3.7
77.5°	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
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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