

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: P743932

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743932
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: LD4D20D010-EU4DR1515309050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2101.6 lumens
Efficiency: N/A
Efficacy: 91.0 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): 23.1
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

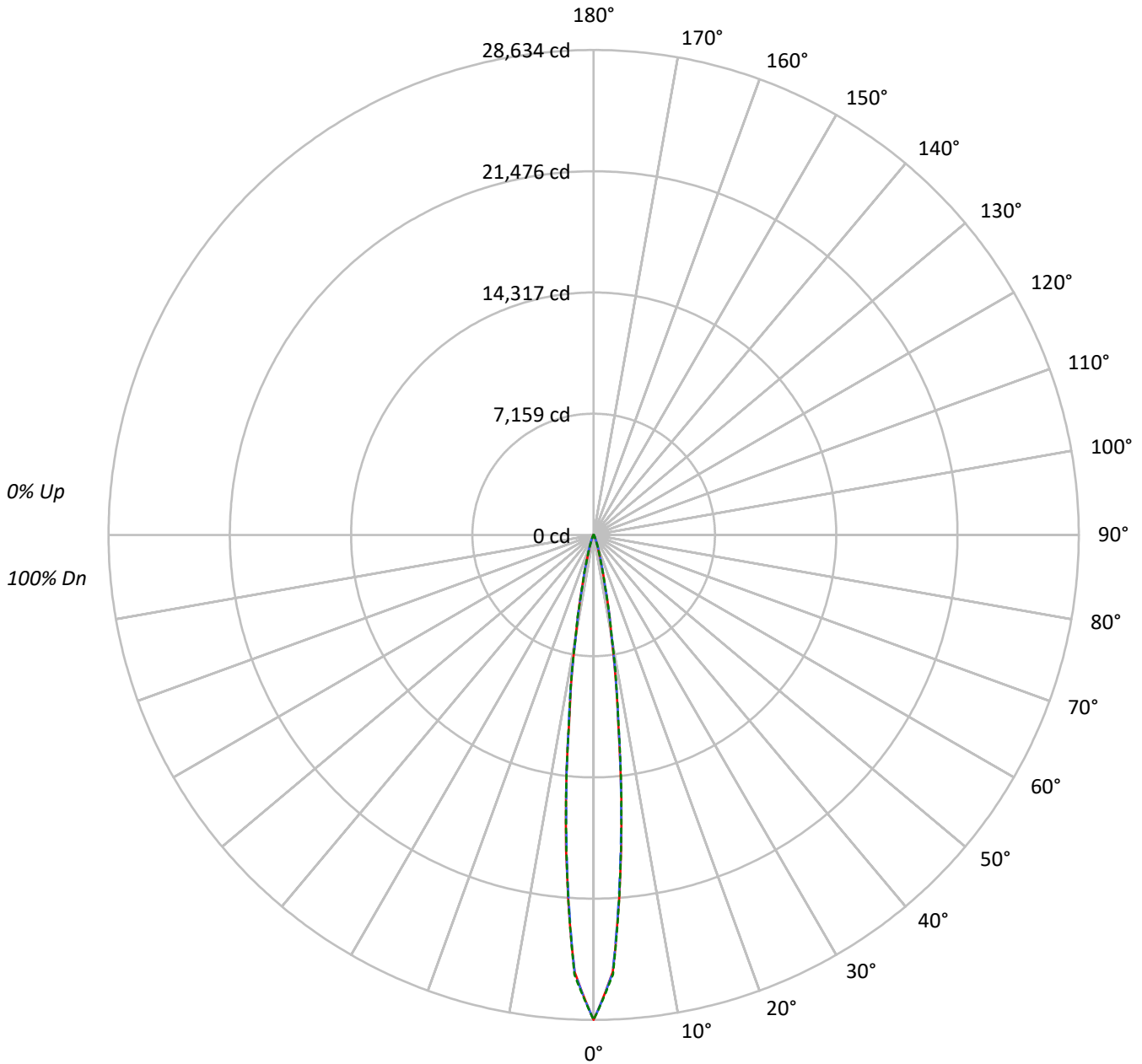


Downlight



TEST NUMBER: P743932
CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P743932

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBS1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3221896	3221896	3221896
5°	1893336	1868823	1883600
10°	565071	569027	577742
15°	140560	143296	138875
20°	42057	48701	42949
25°	14825	18883	15011
30°	5444	7174	5534
35°	2730	3079	2643
40°	1719	1896	1719
45°	1274	1358	1274
50°	1008	1008	1008
55°	842	842	842
60°	681	681	681
65°	521	521	521
70°	446	446	446
75°	272	272	363
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1358 cd/sqm



TEST NUMBER: P743932

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1363.0	64.9
10°-20°	560.7	26.7
20°-30°	111.4	5.3
30°-40°	27.8	1.3
40°-50°	14.6	0.7
50°-60°	10.8	0.5
60°-70°	7.7	0.4
70°-80°	4.3	0.2
80°-90°	1.3	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°	2035.1	96.8
0°-40°	2062.8	98.2
0°-60°	2088.3	99.4
0°-90°	2101.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28634	28634	28634	28634	28634	
5°	18630	18438	18389	18516	18534	1360
15°	1618	1649	1650	1621	1599	555
25°	190	216	242	215	193	100
35°	38	40	42	40	36	26
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P743932

CATALOG NUMBER: LD4D20D010-EU4DR1515309050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28634.0	28634.0	28634.0	28634.0	28634.0
2.5°	25829.0	25850.8	25859.3	25884.8	25979.3
5°	18629.9	18438.4	18388.7	18516.0	18534.1
7.5°	11035.6	11074.4	11216.2	11247.8	11133.8
10°	6056.0	6105.7	6098.4	6142.1	6191.8
12.5°	3097.1	3058.3	3046.2	3095.9	3026.8
15°	1618.3	1648.6	1649.8	1620.7	1598.9
17.5°	870.3	905.5	963.7	916.4	843.7
20°	514.0	545.5	595.2	556.4	524.9
22.5°	317.6	343.0	378.2	347.9	322.4
25°	190.3	215.8	242.4	214.6	192.7
27.5°	112.7	134.6	151.5	133.3	111.5
30°	72.7	84.9	95.8	83.6	73.9
32.5°	50.9	55.8	60.6	55.8	50.9
35°	37.6	40.0	42.4	40.0	36.4
37.5°	29.1	31.5	32.7	30.3	27.9
40°	24.2	25.5	26.7	25.5	24.2
42.5°	20.6	21.8	21.8	21.8	20.6
45°	18.2	18.2	19.4	18.2	18.2
47.5°	15.8	15.8	17.0	15.8	15.8
50°	14.5	14.5	14.5	14.5	14.5
52.5°	13.3	13.3	13.3	13.3	13.3
55°	12.1	12.1	12.1	12.1	12.1
57.5°	10.9	10.9	10.9	10.9	10.9
60°	9.7	9.7	9.7	9.7	9.7
62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.3	7.3	7.3	7.3	7.3
67.5°	7.3	7.3	7.3	7.3	7.3
70°	6.1	6.1	6.1	6.1	6.1
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)