

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: P743855

Luminaire Tested: LD4D20D010-EU4DR1015209050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1015209050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2163.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
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

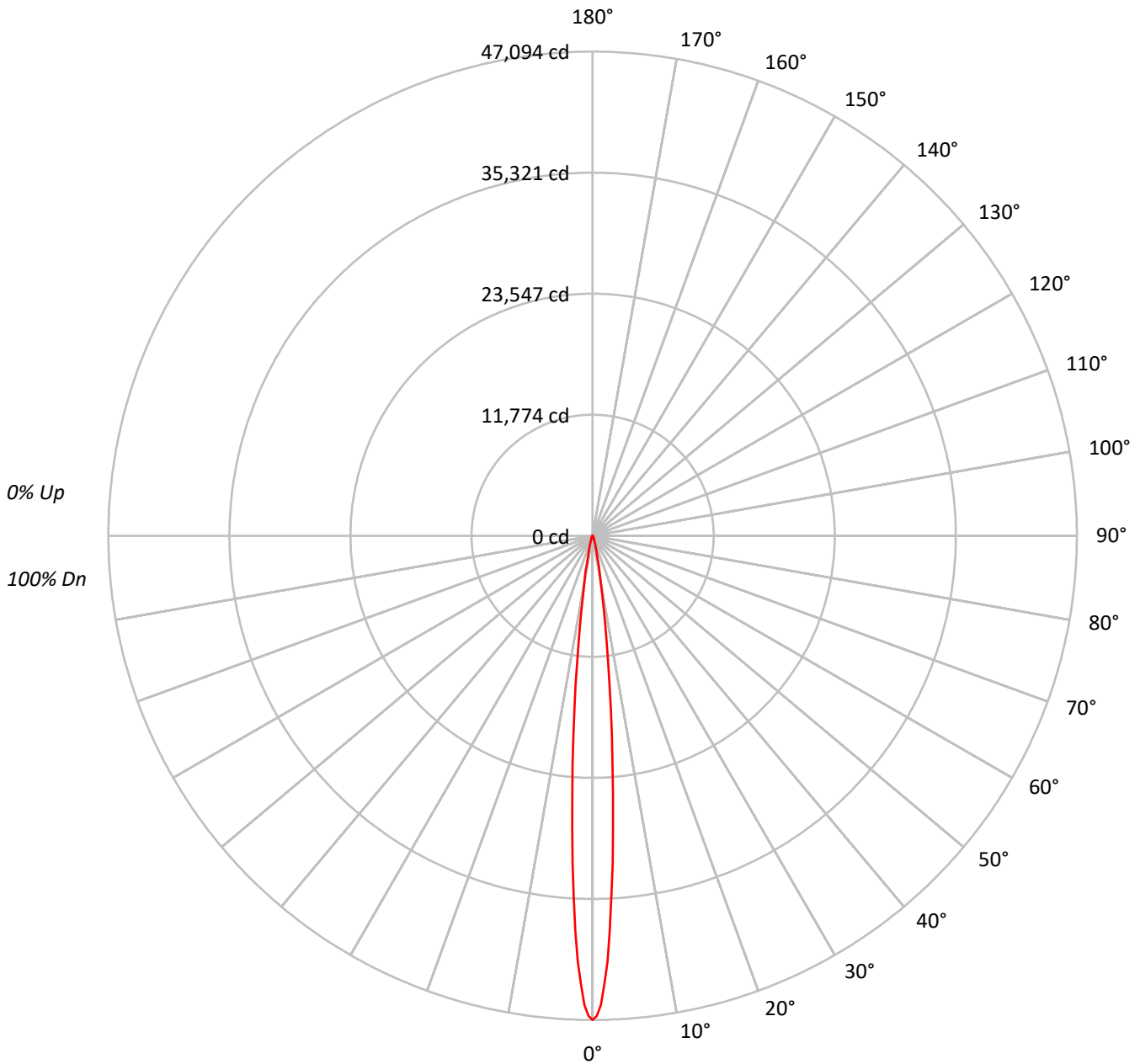


Downlight



TEST NUMBER: P743855
CATALOG NUMBER: LD4D20D010-EU4DR1015209050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P743855

CATALOG NUMBER: LD4D20D010-EU4DR1015209050-4LBS1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5145570
5°	2440009
10°	500412
15°	137378
20°	55369
25°	29669
30°	17549
35°	11418
40°	7631
45°	4960
50°	2737
55°	2038
60°	1180
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4960 cd/sqm



TEST NUMBER: P743855

CATALOG NUMBER: LD4D20D010-EU4DR1015209050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1538.0	71.1
10°-20°	416.2	19.2
20°-30°	119.1	5.5
30°-40°	54.4	2.5
40°-50°	25.0	1.2
50°-60°	8.3	0.4
60°-70°	2.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2073.3	95.9
0°-40°	2127.7	98.4
0°-60°	2161.0	99.9
0°-90°	2163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	47094	
5°	22247	###
15°	1214	416
25°	246	119
35°	86	54
45°	32	25
55°	11	8
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743855

CATALOG NUMBER: LD4D20D010-EU4DR1015209050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	47094.4
0.5°	46687.7
1°	45644.4
1.5°	43632.6
2°	41380.1
2.5°	38405.3
3°	35098.7
3.5°	31899.2
4°	28448.2
4.5°	25270.0
5°	22247.0
5.5°	19507.6
6°	16896.6
6.5°	14601.3
7°	12439.7
7.5°	10593.8
8°	8956.6
8.5°	7522.7
9°	6281.4
9.5°	5334.4
10°	4510.4
12.5°	2150.9
15°	1214.5
17.5°	738.4
20°	476.2
22.5°	331.7
25°	246.1
27.5°	181.9
30°	139.1
32.5°	107.0
35°	85.6
37.5°	64.2
40°	53.5
42.5°	42.8
45°	32.1
47.5°	21.4
50°	16.1
52.5°	10.7
55°	10.7
57.5°	5.4
60°	5.4
62.5°	5.4
65°	0.0



TEST NUMBER: P743855
CATALOG NUMBER: LD4D20D010-EU4DR1015209050-4LBS1LI

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



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

Scaled Data Report



— 0°-180°

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



67.5°		0.0
70°		0.0

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

Scaled Data Report



(END OF REPORT)