

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: P745866

Luminaire Tested: LD4D30D010-EU4DR2015309040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR2015309040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3232.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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

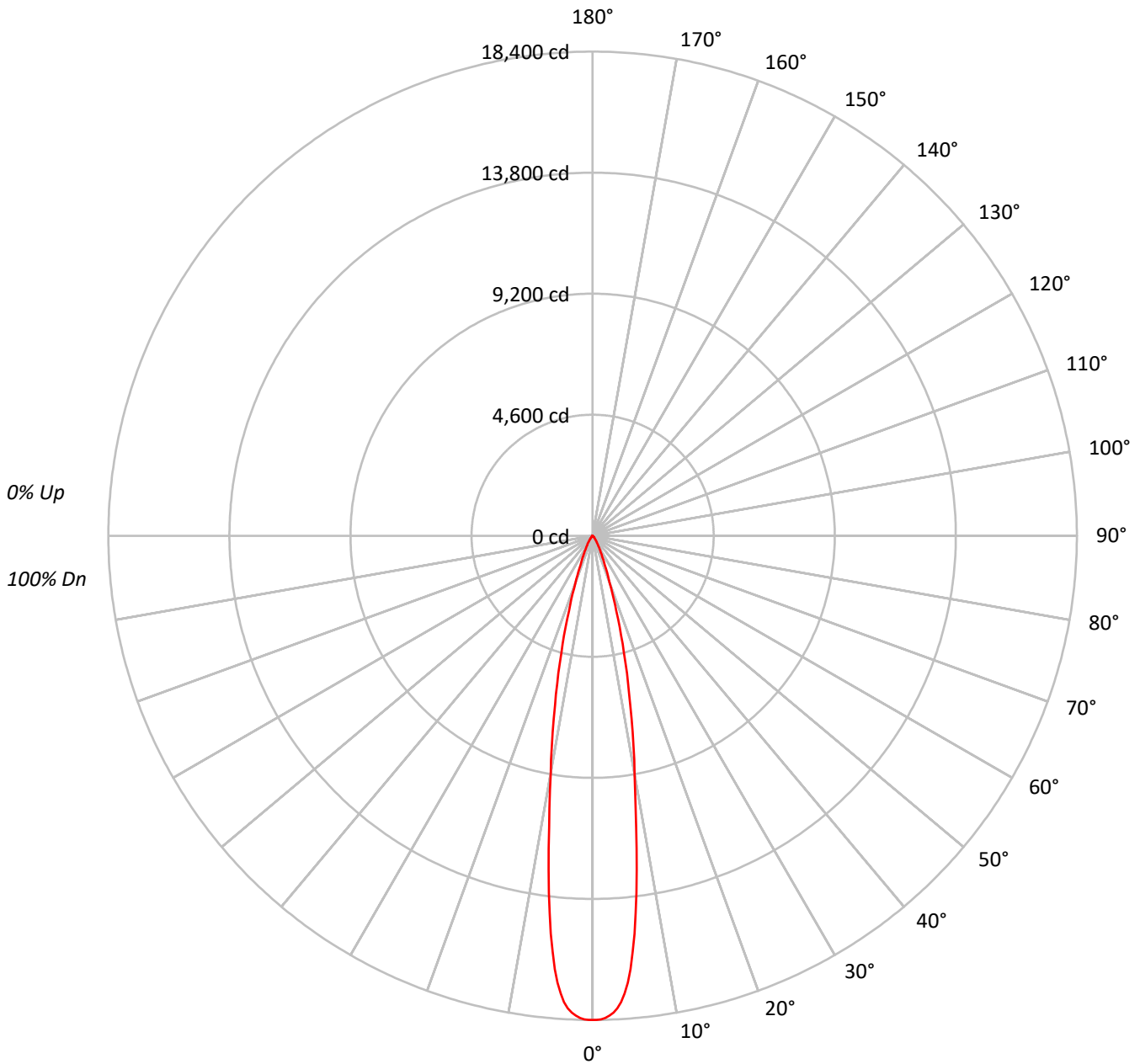


Downlight



TEST NUMBER: P745866
CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P745866

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBDP1LI

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			100																
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	94																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	95	91																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	86																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	84																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	82																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	80																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	78																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	76																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2010420
5°	1813780
10°	1017988
15°	517467
20°	219093
25°	101134
30°	53544
35°	28851
40°	15418
45°	9117
50°	5286
55°	2800
60°	1792
65°	1267
70°	511
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9117 cd/sqm



TEST NUMBER: P745866

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1310.1	40.5
10°-20°	1290.0	39.9
20°-30°	421.4	13.0
30°-40°	143.5	4.4
40°-50°	48.2	1.5
50°-60°	14.5	0.4
60°-70°	4.8	0.1
70°-80°	0.2	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°	3021.5	93.5
0°-40°	3165.0	97.9
0°-60°	3227.7	99.8
0°-90°	3232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18400	
5°	16537	###
15°	4575	1290
25°	839	421
35°	216	143
45°	59	48
55°	15	15
65°	5	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745866

CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	18400.2
0.5°	18400.2
1°	18377.3
1.5°	18331.4
2°	18247.9
2.5°	18136.4
3°	17979.1
3.5°	17759.6
4°	17433.5
4.5°	17037.0
5°	16537.3
5.5°	15880.2
6°	15206.8
6.5°	14435.1
7°	13679.7
7.5°	12795.0
8°	12005.2
8.5°	11210.5
9°	10476.5
9.5°	9803.1
10°	9175.5
12.5°	6588.4
15°	4574.7
17.5°	2988.6
20°	1884.3
22.5°	1220.7
25°	838.9
27.5°	589.9
30°	424.4
32.5°	304.8
35°	216.3
37.5°	150.7
40°	108.1
42.5°	78.6
45°	59.0
47.5°	45.9
50°	31.1
52.5°	19.7
55°	14.7
57.5°	11.5
60°	8.2
62.5°	6.6
65°	4.9



TEST NUMBER: P745866
CATALOG NUMBER: LD4D30D010-EU4DR2015309040-4LBDP1LI

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





67.5°		3.3
70°		1.6

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

Scaled Data Report



(END OF REPORT)