

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: P745838

Luminaire Tested: LD4D30D010-EU4DR2015309030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745838
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-EU4DR2015309030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432.8 lumens
Efficiency: N/A
Efficacy: 83.9 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

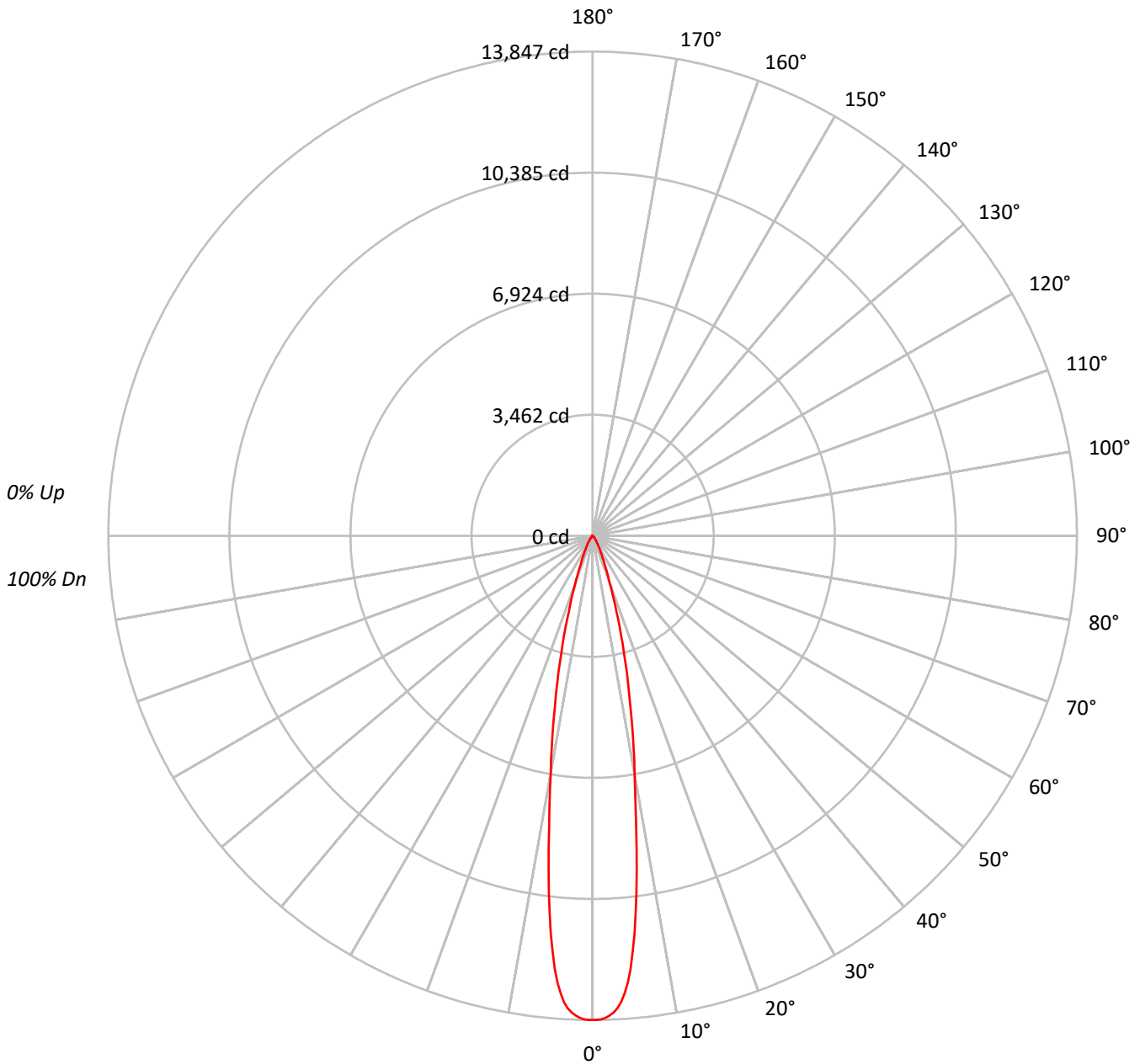


Downlight



TEST NUMBER: P745838
CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P745838

CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBDP1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1512901
5°	1364922
10°	766073
15°	389410
20°	164875
25°	76107
30°	40297
35°	21715
40°	11610
45°	6861
50°	3978
55°	2114
60°	1355
65°	957
70°	383
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6861 cd/sqm



TEST NUMBER: P745838

CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.9	40.5
10°-20°	970.8	39.9
20°-30°	317.1	13.0
30°-40°	108.0	4.4
40°-50°	36.3	1.5
50°-60°	10.9	0.4
60°-70°	3.6	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°	2273.8	93.5
0°-40°	2381.7	97.9
0°-60°	2429.0	99.8
0°-90°	2432.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13847	
5°	12445	986
15°	3443	971
25°	631	317
35°	163	108
45°	44	36
55°	11	11
65°	4	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745838

CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	13846.7
0.5°	13846.7
1°	13829.5
1.5°	13795.0
2°	13732.1
2.5°	13648.2
3°	13529.9
3.5°	13364.6
4°	13119.3
4.5°	12820.9
5°	12444.8
5.5°	11950.4
6°	11443.6
6.5°	10862.9
7°	10294.4
7.5°	9628.6
8°	9034.3
8.5°	8436.3
9°	7883.9
9.5°	7377.1
10°	6904.9
12.5°	4957.9
15°	3442.6
17.5°	2249.0
20°	1418.0
22.5°	918.6
25°	631.3
27.5°	443.9
30°	319.4
32.5°	229.3
35°	162.8
37.5°	113.4
40°	81.4
42.5°	59.2
45°	44.4
47.5°	34.5
50°	23.4
52.5°	14.8
55°	11.1
57.5°	8.6
60°	6.2
62.5°	4.9
65°	3.7



TEST NUMBER: P745838
CATALOG NUMBER: LD4D30D010-EU4DR2015309030-4LBDP1B

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°		2.5
70°		1.2

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

Scaled Data Report



(END OF REPORT)