

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: P743976

Luminaire Tested: LD4D20D010-EU4DR2015309035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743976
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: LD4D20D010-EU4DR2015309035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1927.9 lumens
Efficiency: N/A
Efficacy: 83.5 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): 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

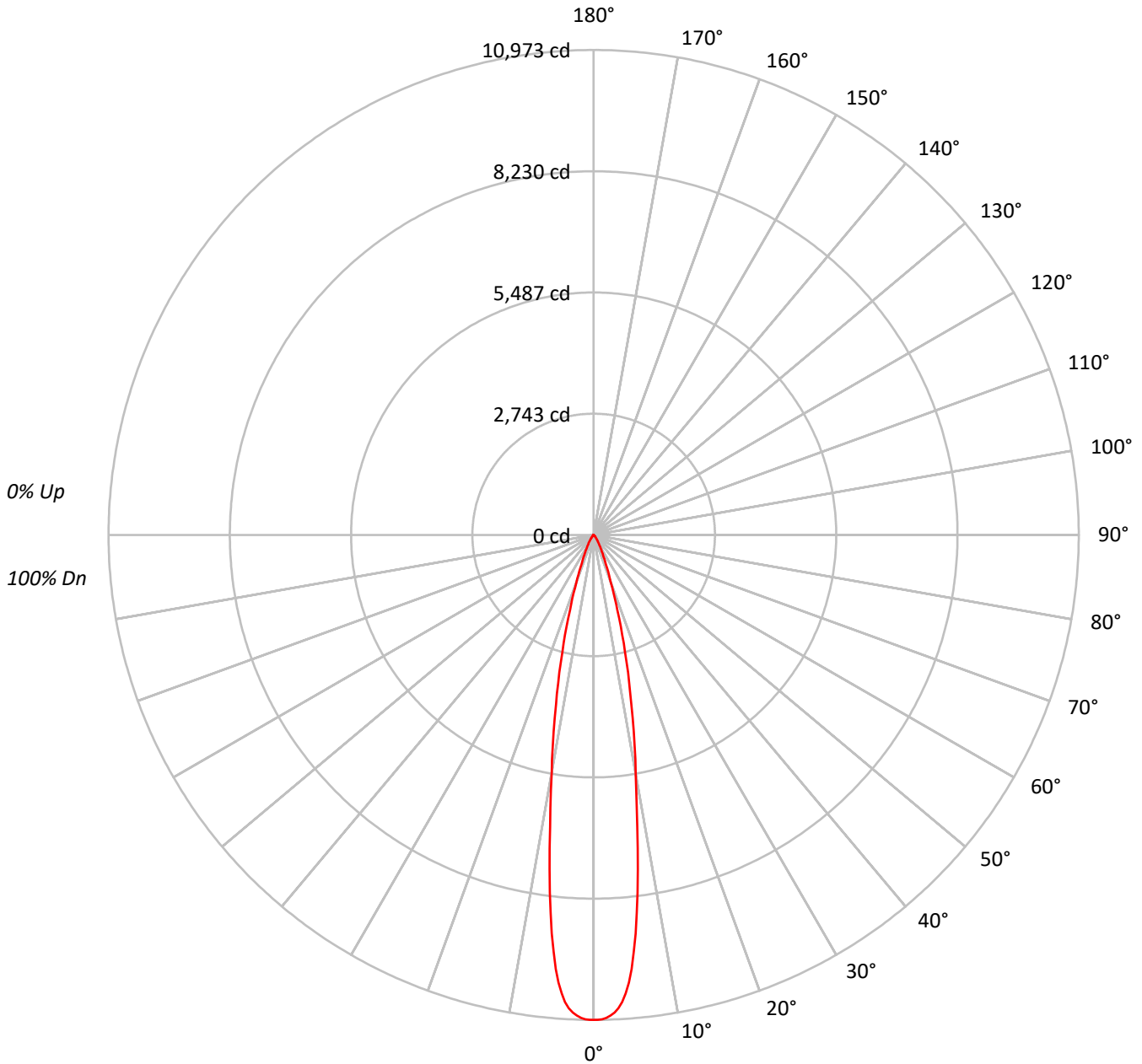


Downlight



TEST NUMBER: P743976
CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P743976
 CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBCSSQMB

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	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	100	100	100	100	100		
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	96	95	94	94	94		
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	93	92	91	91	91		
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	90	89	88	88	88		
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	87	86	85	85	85		
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	84	83	82	82	82		
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	82	81	80	80	80		
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	80	79	78	78	78		
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	78	77	77	77	77		
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	76	75	75	75	75		
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	74	73	73	73	73		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1198918
5°	1081646
10°	607076
15°	308589
20°	130656
25°	60314
30°	31932
35°	17206
40°	9200
45°	5439
50°	3162
55°	1676
60°	1071
65°	750
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5439 cd/sqm



TEST NUMBER: P743976

CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.3	40.5
10°-20°	769.3	39.9
20°-30°	251.3	13.0
30°-40°	85.6	4.4
40°-50°	28.8	1.5
50°-60°	8.7	0.4
60°-70°	2.9	0.1
70°-80°	0.1	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°	1801.9	93.5
0°-40°	1887.5	97.9
0°-60°	1924.9	99.8
0°-90°	1927.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10973	
5°	9862	781
15°	2728	769
25°	500	251
35°	129	86
45°	35	29
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743976

CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	10973.0
0.5°	10973.0
1°	10959.3
1.5°	10932.0
2°	10882.1
2.5°	10815.7
3°	10721.9
3.5°	10591.0
4°	10396.5
4.5°	10160.1
5°	9862.0
5.5°	9470.2
6°	9068.6
6.5°	8608.4
7°	8157.9
7.5°	7630.3
8°	7159.3
8.5°	6685.4
9°	6247.7
9.5°	5846.1
10°	5471.8
12.5°	3929.0
15°	2728.1
17.5°	1782.3
20°	1123.7
22.5°	728.0
25°	500.3
27.5°	351.8
30°	253.1
32.5°	181.7
35°	129.0
37.5°	89.9
40°	64.5
42.5°	46.9
45°	35.2
47.5°	27.4
50°	18.6
52.5°	11.7
55°	8.8
57.5°	6.8
60°	4.9
62.5°	3.9
65°	2.9



TEST NUMBER: P743976
CATALOG NUMBER: LD4D20D010-EU4DR2015309035-4LBCSSQMB

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°		2.0
70°		1.0

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

Scaled Data Report



(END OF REPORT)