

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: P777023

Luminaire Tested: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777023
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: LERS4D02D010-EC4DR200210IC9040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 400.6 lumens
Efficiency: N/A
Efficacy: 78.6 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): 5.1
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



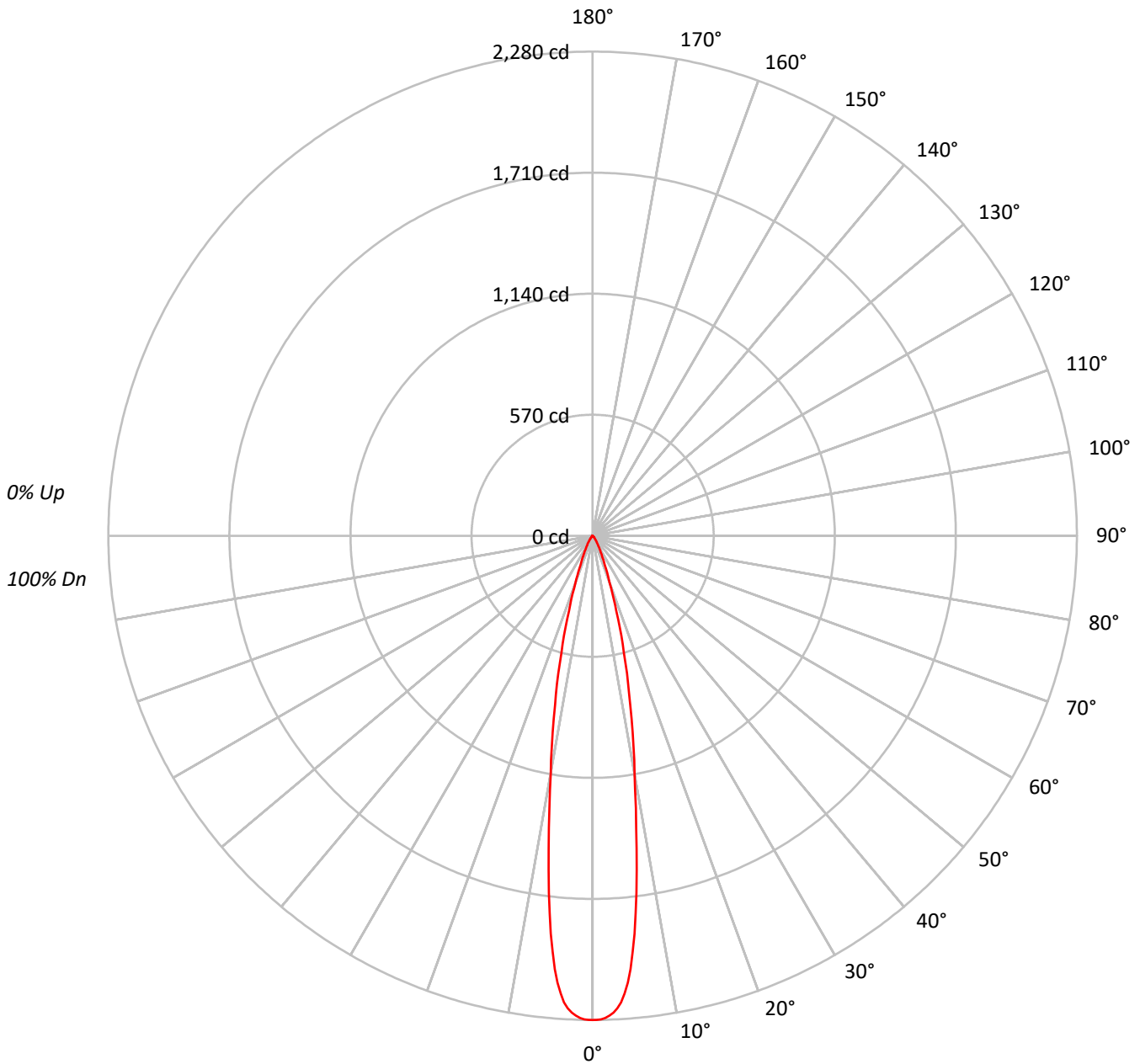
Downlight



TEST NUMBER: P777023

CATALOG NUMBER: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P777023

CATALOG NUMBER: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

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°	249158
5°	224785
10°	126168
15°	64136
20°	27150
25°	12538
30°	6636
35°	3575
40°	1911
45°	1128
50°	663
55°	343
60°	219
65°	155
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1128 cd/sqm



TEST NUMBER: P777023

CATALOG NUMBER: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	40.5
10°-20°	159.9	39.9
20°-30°	52.2	13.0
30°-40°	17.8	4.4
40°-50°	6.0	1.5
50°-60°	1.8	0.4
60°-70°	0.6	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°	374.5	93.5
0°-40°	392.3	97.9
0°-60°	400.0	99.8
0°-90°	400.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2280	
5°	2050	162
15°	567	160
25°	104	52
35°	27	18
45°	7	6
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777023

CATALOG NUMBER: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2280.4
0.5°	2280.4
1°	2277.6
1.5°	2271.9
2°	2261.5
2.5°	2247.7
3°	2228.2
3.5°	2201.0
4°	2160.6
4.5°	2111.5
5°	2049.5
5.5°	1968.1
6°	1884.6
6.5°	1789.0
7°	1695.4
7.5°	1585.7
8°	1487.8
8.5°	1389.4
9°	1298.4
9.5°	1214.9
10°	1137.2
12.5°	816.5
15°	567.0
17.5°	370.4
20°	233.5
22.5°	151.3
25°	104.0
27.5°	73.1
30°	52.6
32.5°	37.8
35°	26.8
37.5°	18.7
40°	13.4
42.5°	9.7
45°	7.3
47.5°	5.7
50°	3.9
52.5°	2.4
55°	1.8
57.5°	1.4
60°	1.0
62.5°	0.8
65°	0.6



TEST NUMBER: P777023

CATALOG NUMBER: LERS4D02D010-EC4DR200210IC9040-4LBS1MW

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°		0.4
70°		0.2

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

Scaled Data Report



(END OF REPORT)