

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: P777330

Luminaire Tested: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777330
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: LERS4D05D010-EC4DR200210IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 785.6 lumens
Efficiency: N/A
Efficacy: 104.8 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): 7.5
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



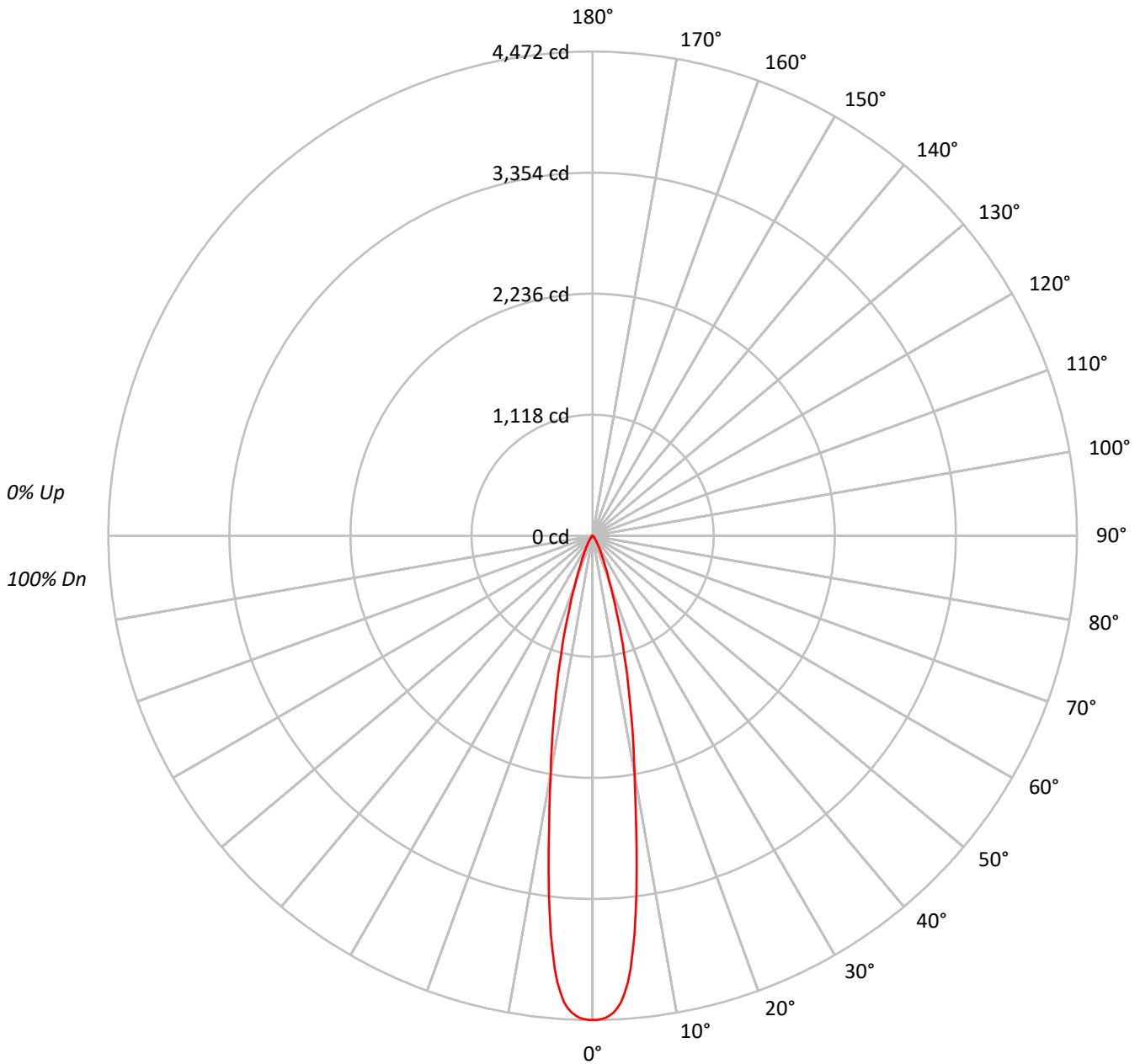
Downlight



TEST NUMBER: P777330

CATALOG NUMBER: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P777330

CATALOG NUMBER: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

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	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	98	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°	488570
5°	440785
10°	247388
15°	125750
20°	53241
25°	24581
30°	13007
35°	7016
40°	3751
45°	2210
50°	1292
55°	686
60°	437
65°	310
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2210 cd/sqm



TEST NUMBER: P777330

CATALOG NUMBER: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	40.5
10°-20°	313.5	39.9
20°-30°	102.4	13.0
30°-40°	34.9	4.4
40°-50°	11.7	1.5
50°-60°	3.5	0.5
60°-70°	1.2	0.2
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°	734.3	93.5
0°-40°	769.1	97.9
0°-60°	784.4	99.8
0°-90°	785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4472	
5°	4019	318
15°	1112	313
25°	204	102
35°	53	35
45°	14	12
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777330

CATALOG NUMBER: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	4471.6
0.5°	4471.6
1°	4466.0
1.5°	4454.9
2°	4434.6
2.5°	4407.5
3°	4369.3
3.5°	4315.9
4°	4236.7
4.5°	4140.3
5°	4018.9
5.5°	3859.2
6°	3695.6
6.5°	3508.0
7°	3324.4
7.5°	3109.4
8°	2917.5
8.5°	2724.4
9°	2546.0
9.5°	2382.3
10°	2229.8
12.5°	1601.1
15°	1111.7
17.5°	726.3
20°	457.9
22.5°	296.6
25°	203.9
27.5°	143.3
30°	103.1
32.5°	74.1
35°	52.6
37.5°	36.6
40°	26.3
42.5°	19.1
45°	14.3
47.5°	11.1
50°	7.6
52.5°	4.8
55°	3.6
57.5°	2.8
60°	2.0
62.5°	1.6
65°	1.2



TEST NUMBER: P777330

CATALOG NUMBER: LERS4D05D010-EC4DR200210IC9035-4LBS1LI

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





— 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°		0.8
70°		0.4

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

Scaled Data Report



(END OF REPORT)