

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: P777555

Luminaire Tested: LERS4D05D010-EC4DR650210IC9050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D05D010-EC4DR650210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 597.1 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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



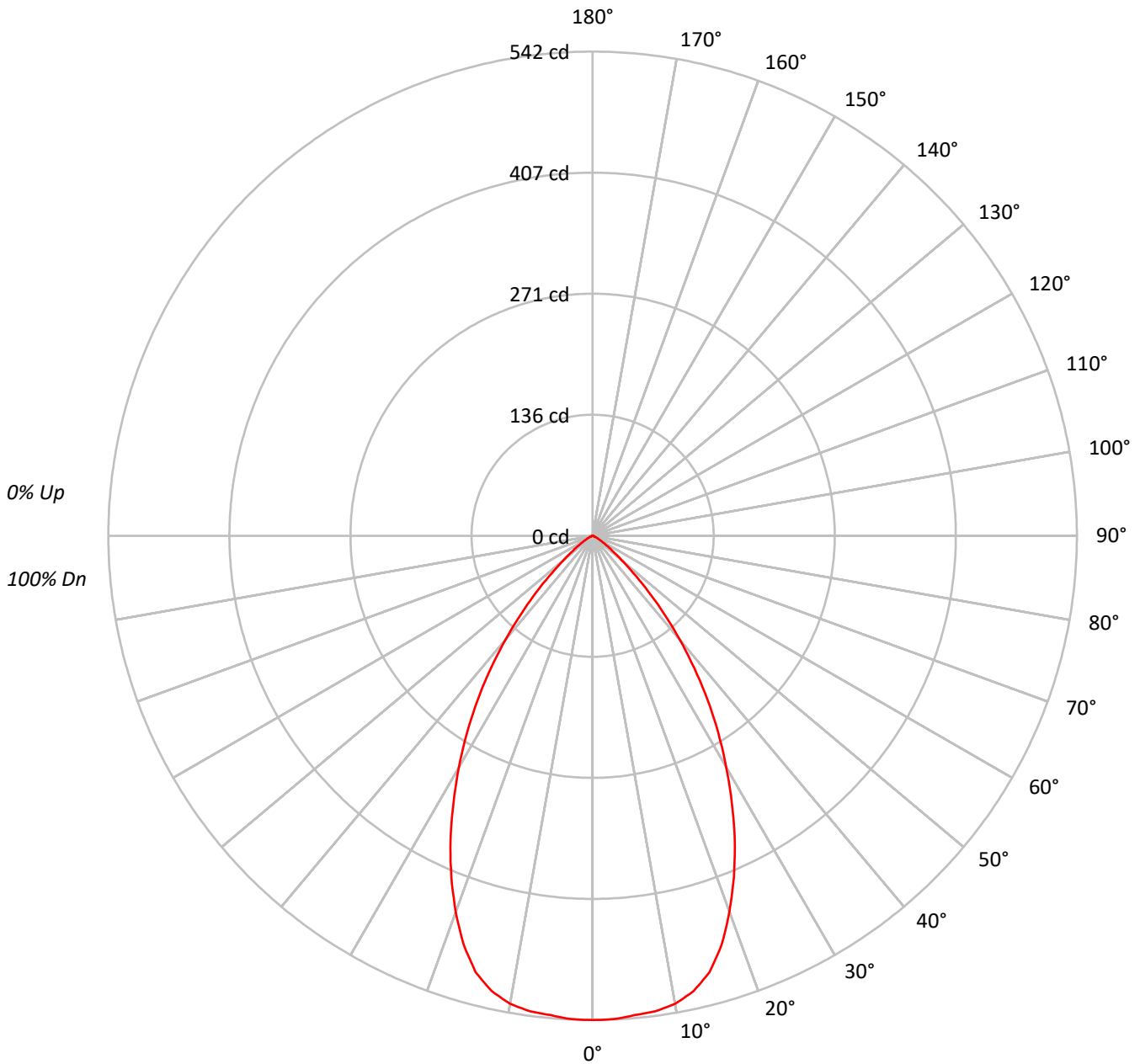
Downlight



TEST NUMBER: P777555

CATALOG NUMBER: LERS4D05D010-EC4DR650210IC9050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P777555

CATALOG NUMBER: LERS4D05D010-EC4DR650210IC9050-4LBS1MW

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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61																			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56																			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31661
5°	31582
10°	31550
15°	30577
20°	27838
25°	24262
30°	20178
35°	15992
40°	11543
45°	7293
50°	3798
55°	2016
60°	1063
65°	580
70°	239
75°	271
80°	202
85°	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7293 cd/sqm



TEST NUMBER: P777555

CATALOG NUMBER: LERS4D05D010-EC4DR650210IC9050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	8.6
10°-20°	140.4	23.5
20°-30°	171.6	28.7
30°-40°	139.2	23.3
40°-50°	69.4	11.6
50°-60°	19.3	3.2
60°-70°	4.4	0.7
70°-80°	1.2	0.2
80°-90°	0.3	0.1
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°	363.2	60.8
0°-40°	502.5	84.2
0°-60°	591.2	99.0
0°-90°	597.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	539	51
15°	506	140
25°	376	172
35°	224	139
45°	88	69
55°	20	19
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P777555
CATALOG NUMBER: LERS4D05D010-EC4DR650210IC9050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	542.1
2.5°	541.7
5°	538.7
7.5°	536.9
10°	532.0
12.5°	522.2
15°	505.7
17.5°	480.1
20°	447.9
22.5°	413.2
25°	376.5
27.5°	337.2
30°	299.2
32.5°	261.7
35°	224.3
37.5°	186.9
40°	151.4
42.5°	118.1
45°	88.3
47.5°	61.5
50°	41.8
52.5°	28.8
55°	19.8
57.5°	13.4
60°	9.1
62.5°	6.3
65°	4.2
67.5°	2.2
70°	1.4
72.5°	1.4
75°	1.2
77.5°	0.8
80°	0.6
82.5°	0.4
85°	0.2
87.5°	0.2
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



(END OF REPORT)